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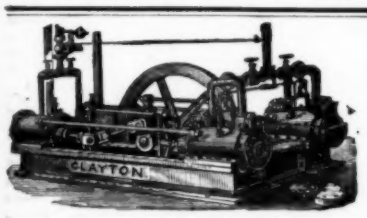

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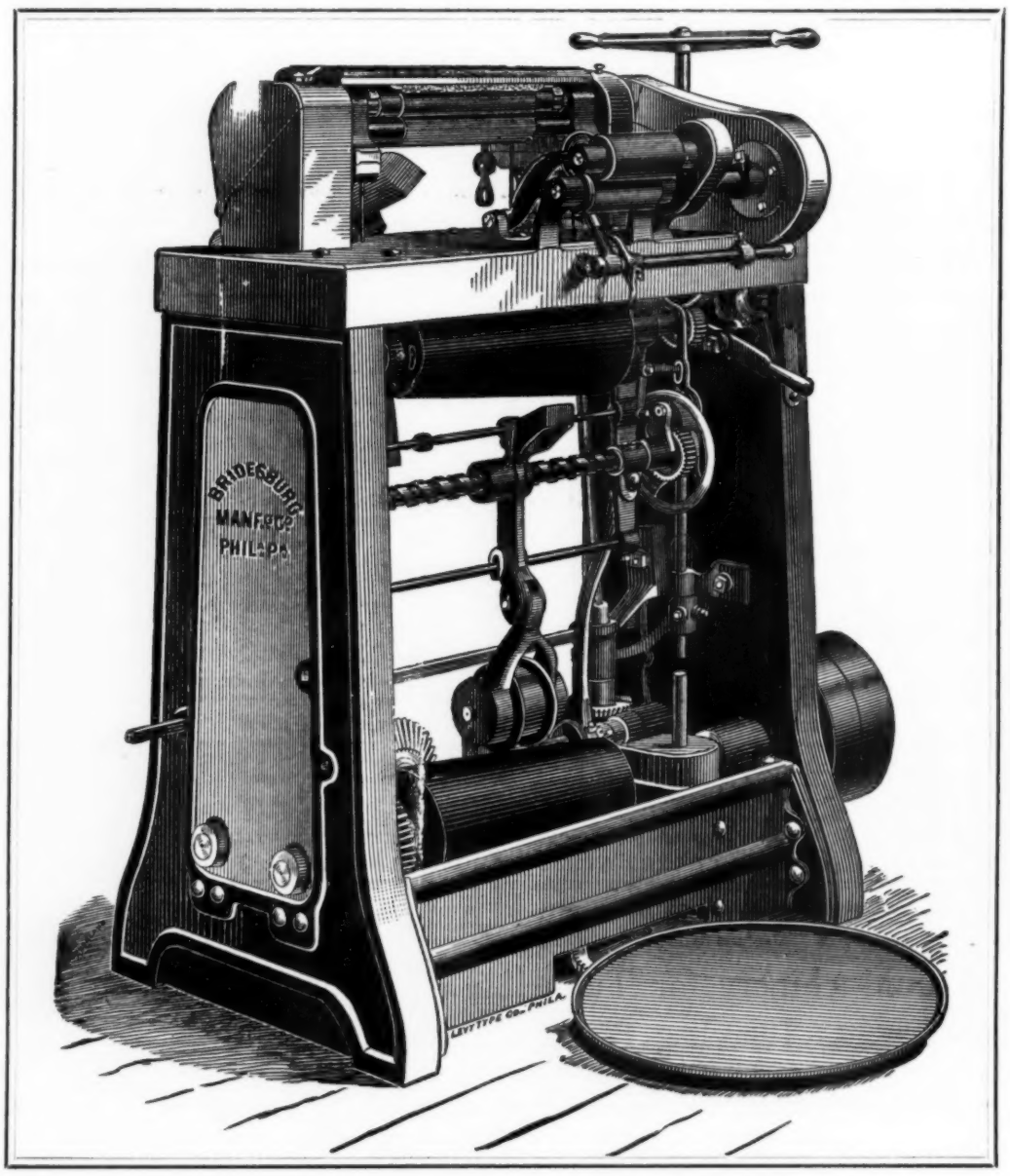

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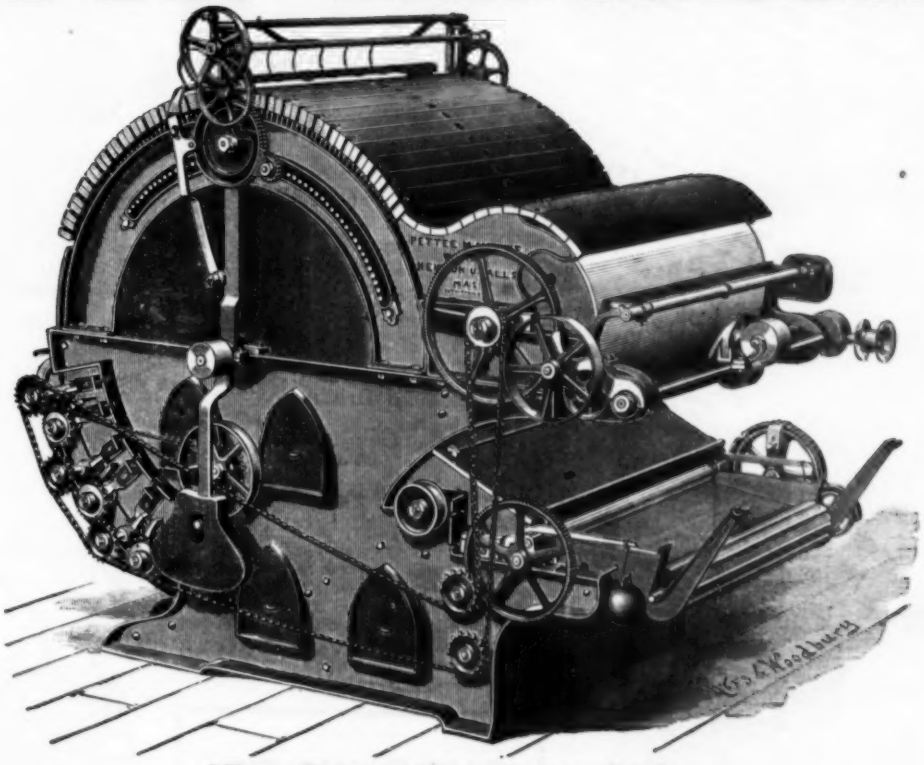

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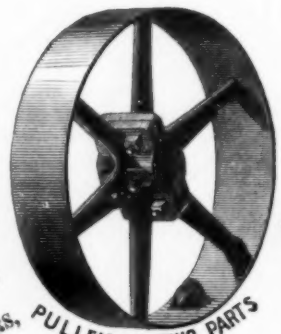

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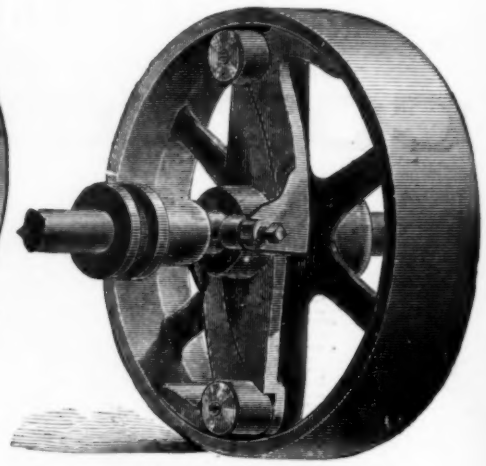

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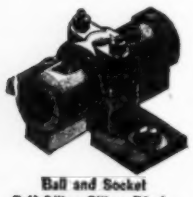

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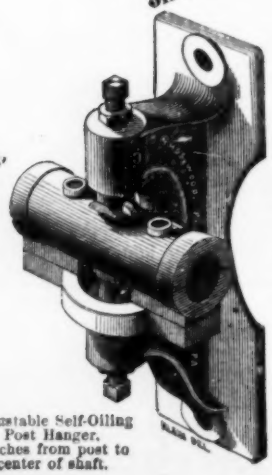

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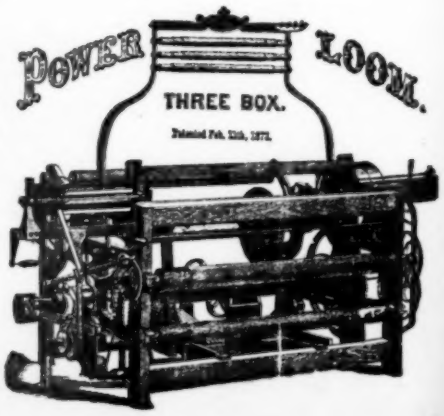

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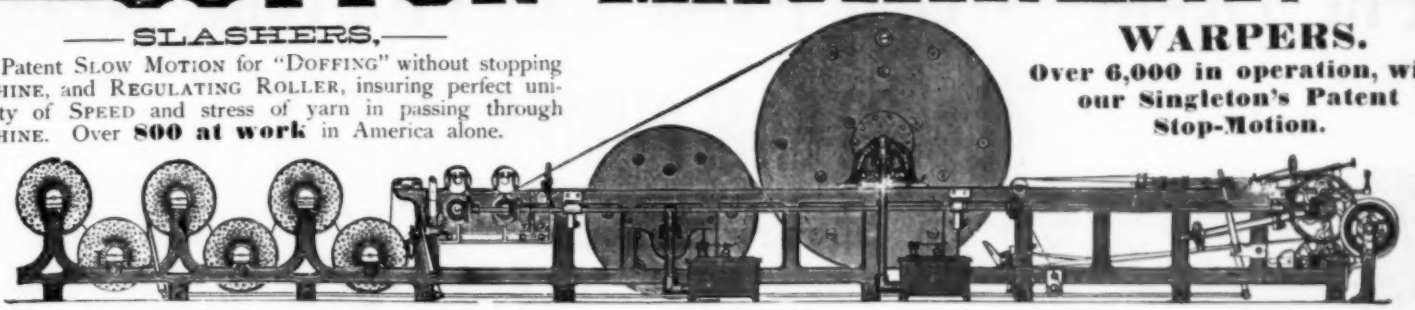

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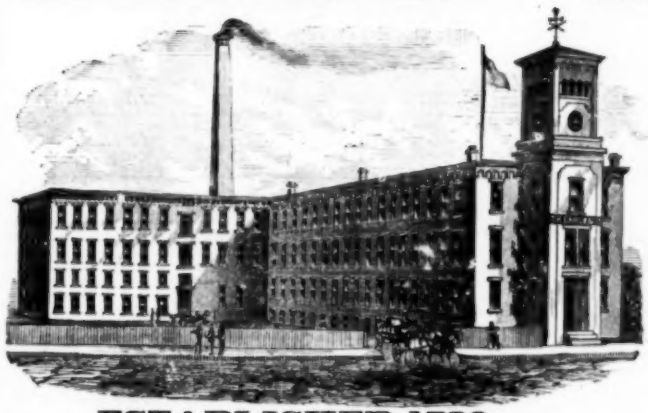

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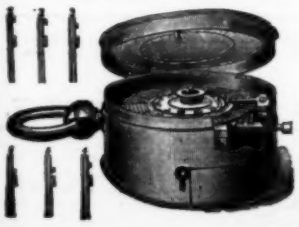

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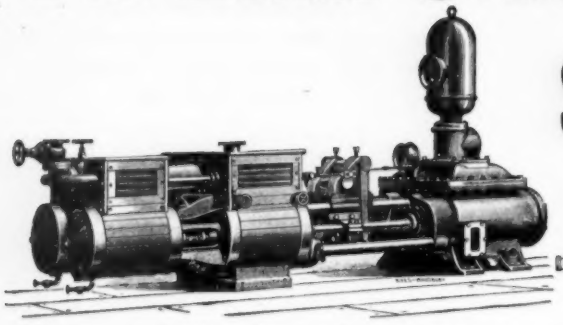

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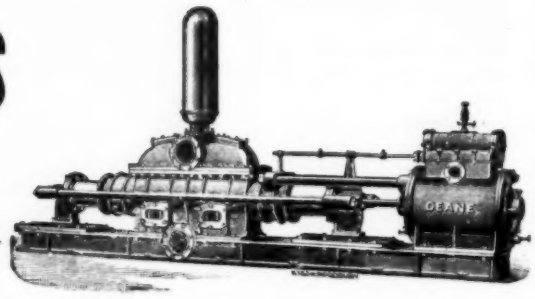

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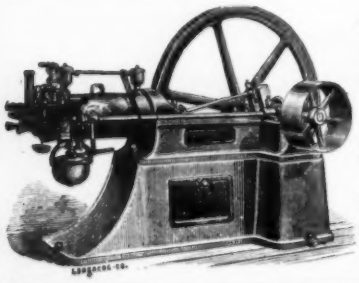

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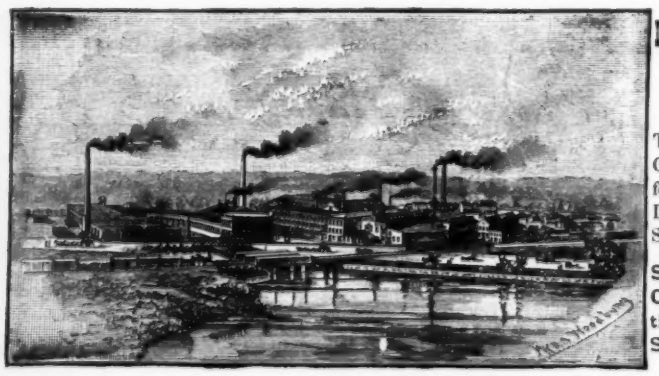

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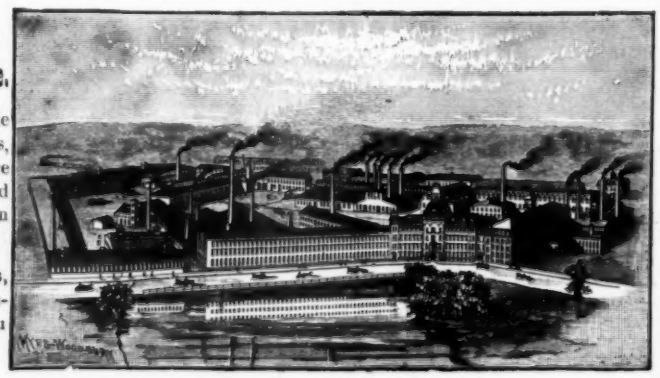

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The first-named journal has been a desirable medium through which we have reached the capitalists and manufacturers of the North; the latter has been an able advocate of our industries and institutions, and has not been slow in pushing new enterprises. As an antidote for croakers and old fogyism we recommend the RECORD and the Chronicle. They will either kill or cure.—*Alabama Industrial*, Talladega, Ala.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. We invite those interested in the development of the South to make free use of our columns. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more,—so if you desire to attract immigration or capital, or if you know of an opening for profitable investment in manufacturing, mining or kindred pursuits, write us an account of it. It will be published free of cost.

☞ *If you are not already a subscriber to the* BALTIMORE MANUFACTURERS' RECORD, *send us $3 and you will receive it regularly for one year or six months for $1.50.*

The Cost of Cotton Mill Labor North and South.

In a private letter one of the leading cotton manufacturers of the South, discussing the comparative value of operatives in Northern and in Southern mills, says that "it is but natural that in some localities of the South, where mills, until lately, were unknown, that help was unskilled. There is always plenty in quantity, but until taught it is deficient in quality. Again it is a very common practice in Southern mills to work help of less mature years than is the rule in the East. These causes render it true that new mills work more people than is afterwards found necessary. It is not true that in the better managed and older mills of the South there is numerically more labor of a given age or class than East. It is true in my opinion that the average is against the South numerically speaking. At last, however, the test of cheapness is cents per pound; in this we feel safe in being in the South. Those interested at the North might examine into that proposition; it matters little as to the rest—cost per pound is the test of cheapness."

The writer of this letter is undoubtedly correct in saying that the test between the North and the South is the relative cost per pound, and this is admittedly in favor of the South. This difference in favor of Southern mills must necessarily increase with the increase in efficiency of Southern operatives in experience, management, and in abundant capital. We are not among those who predict the speedy decay of the vast cotton-manufacturing interests of the North, and we feel sure that such a state of affairs will not be seen during this century at least, but we do believe that the chief increase in cotton mills in this country will hereafter be in the Southern States. The gain in that section is very rapid, and within the next twelve or fifteen years we think it altogether probable that the number of spindles in the South will very nearly equal the number now in the North.

We have carefully watched the progress of the South's industrial development, and studied the outlook for the future, and have no hesitation in predicting that, great as the advance of the last five years has been, the next five will show far more stupendous results. The New Orleans Exhibition alone will do more for the South in six months than could be accomplished without it in five years.

Commercial Honor.

One of the most unpleasant features connected with the numerous financial troubles of late is the surprising lack of honesty among so many business men. Business of all kinds must be conducted very largely upon the confidence of operators in the commercial integrity of those with whom they deal, but unfortunately late revelations have shown a marvellous lack of that commercial integrity which men have a right to look for. Men trusted with vast responsibilities have proven false to their position, and an examination of the most important failures that have marked the course of business during the last few weeks will show that downright dishonesty is at the bottom of the great majority, though it is pleasant to know that this cannot be said of all.

For many years there has been a growing disposition to overlook the sharp tricks of trade by which men seek to gain wealth at the expense of others; and this, coupled with the inordinate desire for the rapid accumulation of wealth, is working out its legitimate results. It is not simply in the speculative field, nor among bank cashiers, that these things are occurring, for, unfortunately, the same evils permeate all trades and industries. In manufactures we see constant evidence of efforts made by some to enrich themselves by imitating or copying in some way, as closely as possible, to deceive and yet avoid the penalties of direct infringement, the goods of other manufacturers,—hoping in this way to make more money than by fair and honest competition. No sooner has a manufacturer built up the reputation of his goods than some one else tries by dishonest means to deprive him of his just profits. Much of the work of our courts is devoted to the settlement of disputes growing out of practices of this kind; but, unfortunately, the law's decisions are not by any means always on the side of justice, and this very fact largely contributes to encourage these dishonest business methods. We need a higher tone of commercial honor and integrity among business men generally, and then it will not only become unpopular to be dishonest, but also unprofitable, and then we may look for fewer bank failures, fewer swindles in commercial transactions, and fewer imitations and infringements of manufactured goods.

The Oriole Display.

We are glad to see that the county papers, especially those on the Eastern shore of Maryland, are beginning to denounce the annual displays of the Baltimore Oriole Association, for possibly, if they will keep hammering at it, they may do some good in helping to kill them off. Of all the unpopular things we know of there are few, if any, more unpopular among our best business men than these annual displays. It is true that they attract some visitors here, but they are mainly of a class that are not liberal buyers, for merchants do not care to come to Baltimore at a time when hotels are overcrowded, and when no desirable accommodations can be had. Hence, instead of attracting the best class of merchants, these displays keep many away; moreover, those who do come would come anyway, and, after getting here, they find it unsatisfactory to themselves as well as to our merchants to attempt to transact business while everything is upset by these displays.

The actual loss not only to many of our business interests,—especially to the packing trade,—but also to truckers and fruit-growers of this and the neighboring States, is simply immense, the loss to the Eastern Shore peach-growers last year, on account of the closing of the packing-houses for three days, being put down by an Eastern Shore paper at fully $1,000,000. We feel confident that more money could be raised to stop these displays than can possibly be secured to pay for having them.

Crops in the South.

As the season advances the prospects for abundant crops in the South, especially of those that mature early in the summer, continue to improve. Never before have we seen such remarkably favorable reports from every Southern State regarding the wheat, fruit and vegetable crops, and while the yield of these will, without doubt, be the largest on record, there are excellent indications for good crops of corn and cotton. These two great staples have been delayed by wet weather, and for a time it was feared that their yield might prove disappointingly small, but within the last few weeks there has been a decided improvement in the outlook according to the local papers, and we know of no better way of learning of the condition of the crops as well as of the people generally of any country than by their local papers, and more especially by those published in the smaller cities and towns. We may now safely say that the early summer crops in the South, such as wheat, vegetables, fruit, &c., will be more abundant than ever before, giving a decided impetus to business generally, while of corn and cotton all indications as gathered from the latest reports may be regarded as favorable to good yields.

As we have previously said, the prosperity of the South and the increase in industrial interests during 1884-85 depend very largely upon this year's crops, and hence it is that we have from week to week chronicled the condition of the various crops. If present prospects should be realized, 1884-85 will witness a development of Southern resources that will be simply amazing, even when compared with the rapid progress of late years.

A dispatch from Galveston, Texas, says that the News publishes crop reports from over 200 points in that State, covering seventy-six counties, embracing the agricultural district of Texas. The reports show that the condition of the cotton has very materially improved within the past three weeks, and that, while the recent severe rains did serious damage to plants in the lowlands, the uplands were correspondingly benefitted.—The season will be late, but every indication now points to a full average crop. In view of recent published statements and general apprehension this announcement will prove important to the commercial world.

CONSTRUCTION DEPARTMENT.

We publish, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

Bynum & Cotton are building a new tobacco factory in Winston, N. C.

Haney & Anderson, of Granbury, Texas, will build the $45,000 court-house at Cleburne, Tex.

The Tobin Canning Co., stock $10,000, has been organized at San Antonio, Tex.

The improvements to be made at Lambert's Point, near Norfolk, Va., by the Norfolk & Western Railroad, as previously mentioned, will be on a very large scale, including a 500,000-bushel grain elevator, a cotton compress, eight large coal piers 500 feet long each, an abattoir, &c. The whole place will be lighted by electric lights. The main office of this road is in Philadelphia.

The Union Compress and Warehouse Co., stock $75,000, has been incorporated in Atlanta, Ga., for compressing cotton, &c. Incorporators: J. C. Kirkpatrick, R. C. Clarke, Emory Speer, and others.

C. P. Albright and J. A. Martin, Graham, N. C., are preparing to start a tobacco factory in Graham, N. C.

Burk & Co., of Lapidum, Md., are opening a new granite quarry.

Sam'l Fies and Wiley Jones, Pine Bluff, Ark., are authorized to build and operate a street railroad in that city.

A large saw mill is soon to be erected at Spring Garden, Fla.

The Magnolia Laundry Soap Manf Co., stock $100,000, has been incorporated in Baltimore by Geo. E. Broderick, L. B. Broadbent, C. W. Kollinger, Chas. F. Broadbent and Wm. J. Kollinger.

The H. A. Ramsay Engineering Works, of Baltimore, previously reported, will probably be ready for business about July 1.

Wheeler & Mosely, Prosperity, S. C., are improving their mill and putting in flour machinery.

W. D. Roberts & Son, of Easton, Md., will erect the new bank building at Centreville, Md.

Loomis Mill's boiler, near Little Rock, Ark, exploded, doing considerable damage.

Willis Wood will build the county jail at Macon, Ga.

R. Nickerson, Athens, Ga., will develop a gold mine and put in machinery.

Haney & Andrew have thrown up the contract for building the court-house at Weatherford, Tex., and James H. Milliken & Co., of that town, have received the contract for $55,555.

C. L. Myers and W. W. Alston, Leesburg, Fla., will build a street railway.

The Edison Electric Light Co., of Cumberland, Md., (John Humbird, J. S. Humbird, and others,) previously reported, have secured ground for their buildings.

The River Compress Co., Columbus, Ga., have the money and the ground for their new compress, which is to be ready by the fall.

The new ice company reported as forming in Columbus, Ga., has organized as the Columbus Ice and Refrigerator Co. Will erect ice factory and cold-storage warehouse at once.

A new flour mill is soon to be built in Columbus, Ga.

The Clermont Improvement Co., of Vineland, N. J., have commenced work on a saw mill in Sumter county, Fla.

P. A. Krise, of Lynchburg, Va., is chairman of the city council committee authorized to negotiate for lighting Lynchburg by electric lights. He is examining the different methods.

The Mary Coal Co. has been organized at Denton, Carter county, Ky.

A company has been organized in Meridian, Miss., to introduce the electric light.

The Tennessee Iron Manufacturing Co., stock $1,000,000, has been organized at Columbia, Tenn., by Robert M. McKay, Wm. J. Whitthorne, F. J. Ewing, George Childress, and others.

Wm. C. Wall, Gainesville, Ga., will manufacture mining machinery.

Work has been commenced on the new cotton-seed oil mill to be erected at Macon, Ga., by the Muscogee Oil Mill Co., of Columbus, Ga., previously reported.

C. C. NeSmith, of Chicago, president of the Chicago & Pensacola Trunk Railway Co., says the building of this road will commence very soon.

The Bainbridge Lumber Co., of Bainbridge, Ga., will put in considerable new machinery.

Meridian Electric Light Co., stock $50,000, has been incorporated in Meridian, Miss., by E. Watkins, J. R. McIntosh and L. A. Ragsdale.

G. W. C. Lomb, of Birmingham, is still at work on the project for a $500,000 cotton mill in that city, as previously mentioned. One-half of the capital is promised by Northern men.

J. A. Adams has just established a mattress factory at Chattanooga, Tenn.

An electric light company, stock $50,000, has been organized in Huntington, W. Va.

Work has been commenced on the buildings for the foundry and machine shop at Columbus, Tex., previously reported.

A company is organized at Lampasas, Texas, to build a wool warehouse, put in scouring machinery, &c.

The Meridian National Bank, Meridian, Miss., will put up a new building.

J. J. Powers, of St. Louis, will, it is said, build a cotton-seed oil mill at Vicksburg, Miss.

L. S. Young, Thos. S. King, G. E. Blaine, and others, have organized the Blaine Centre Draft Plow Co., to manufacture plows at Knoxville, Tenn.; capital paid in reported $10,000.

The Texas Machine Co., stock $100,000, has been organized at Dallas, Tex.

The Ironing Machine Co., stock $50,000, has been organized at Paris, Tex.

John Wathey and J. G. Chadwick have purchased the Calera Iron Works, of Calera, Ala.; will improve facilities and turn out machine work generally.

A $20,000 furniture manufacturing company is organizing in Birmingham, Ala.

W. A. Posey, of Aberdeen, Miss., contemplates starting a furniture factory at that city.

The Eagle Pass Water Works Co., Eagle Pass, Texas, have increased their capital from $10,000 to $20,000.

The Welton Coal Co, Malden, W. Va., will resume operations.

The furniture manufacturing company previously reported as organizing in Morrillton, Ark., has a capital stock of $8,000. Among the stockholders are J. T. Hannaford, D. H. Thomas, J. T. Beal, Chas. Penzel, and others.

D. F. Houston, P. L. Terry, and others, of Roanoke, Va, have organized a $100,000 company to manufacture a new car-coupler.

Joseph and Jacob Giebel, and others, Montgomery, Ala., have purchased a building to be used as a large carriage factory.

Incorporated in Wheeling, W. Va.,—the Kelly Coal and Coke Co., of Portland, Ohio. Incorporators: John Laughlin, Fred. Laughlin, and S. S. Kisner, of Wheeling, and others.

T. C. Butler, Mobile, Ala, will probably start a stave factory.

BURNED.

The drying house of Karn & Hickson, near Lynchburg, Va., was damaged by fire.

Fourth & Sons' foundry, at Batesville, Ark.; loss $13,000.

Gin and grist mill of Kelly & Woodham, at Stokes Bridge, Kershaw county, S. C.

Saw mill of Jos. Brooks, at Taylor's Island, Md.

Gwin's Broom Factory, Mobile, Ala.

Flues over the Tops of Boilers.

The following from the *Locomotive* is worthy of extended circulation:

"We are sorry to see that relics of barbarism still exist in the form of flues running over the tops of boiler shells. One would naturally suppose that when the number of boilers that have been ruined and the still greater number that have been seriously injured by this form of setting is taken into account, no one would think of setting new boilers in this manner. Yet it is done every day, and by intelligent and experienced men, too. The argument used in its favor, that the passage of the hot gases over the steam space superheats the steam, and thereby renders it more economical, is a plausible one, and doubtless leads many steam-users to adopt this form of setting; but if the circumstances are carefully examined, the argument will be seen to be fallacious. It will be found impossible to superheat steam when it is in intimate contact with such a large surface and body of water as it is in the case of a tubular boiler. Moreover, it will be difficult for any one who has in mind the poor conductivity of *ashes*, to see (when looking into one of these flues after it has been running a few months) how superheating of the steam *can* occur.

Our experience with this form of setting (and it is a somewhat extensive one) points to this: So long as the brick work at the sides of the boiler is perfectly intact, so as to *compel* all the gases of combustion to pass through the tubes before they reach top of the boiler, and the water is good, the influence of the flue is *nil*, because if the boiler is properly proportioned the temperature in the flue cannot much exceed that of the steam in the boiler; and if the boiler is badly proportioned, the deposit of ashes which soon collects on top of the shell protects it, in a great measure, and this very protection is sufficient to prevent any super-heating of the steam. But as soon as the side walls begin to heave, as they almost always do, and crowd away from the boiler shell, *then* the fire takes a short cut up past the side of the boiler into the flue, the draft is sufficient to carry away the ashes at the points where the openings are, and the exposed portion of the shell gets 'scorched.' Sometimes, when the feed-water is very acid, the overheating, while hardly violent enough to burn the plates, is just sufficient to bake all scum on the surface of the water on to the shell above the water-line, beneath which coating corrosion goes on with surprising rapidity.

We have seen boilers set in this way, with a coating several inches thick above the water-line, after they had run only a year, beneath which the plates were eaten nearly half-way through, while other boilers in the same room had been running under the same circumstances, with the single exception that the flue did not pass back over the shell, for upwards of fifteen years, and only showed very slight traces of this action. This seems to us to be conclusive evidence of the injurious action of this form of setting, aside from the liability, at any time, of the side walls becoming so badly disarranged that actual overheating and fracture therefrom may occur."

NEW PUBLICATIONS.

THE Westinghouse Machine Co., of Pittsburgh, have issued four catalogues of their engines, the largest showing the general make and description of the well-known Westinghouse Engine, while the others present the "Westinghouse Engine as applied to Electric Lighting," "The Westinghouse Engine as applied to Ginning Cotton," and as a "Marine Engine." For these purposes, as well as for many others, this engine is particularly valuable, the remarkable demand for it attesting its general popularity.

THE July *Century* contains a remarkable contribution to United States history in "The Ku Klux Klan; Its Origin, Growth and Disbandment," by the Rev. D. L. Wilson, Pulaski, Tenn., who vouches for his facts, most of which are new to the public, and will prove a revelation to many who consider themselves well-informed on all the outgrowths of the late conflict in the South. This paper also furnishes the text for the leading editorial, in "Topics of the Time."

The frontispiece is an engraving from a full-length photograph of John Bright, accompanying a careful and discriminating estimate by T. H. S. Escott, editor of "The Fortnightly Review." Mr. Escott includes in his article several amusing and characteristic anecdotes of the great English radical. "The Scenes of Hawthorne's Romances" are described in a chatty way, with pertinent quotations by Julian Hawthorne, and they are charmingly illustrated by Harry Fenn, among the pictures being several of "The Wayside," and "The Old Manse." Mr. Fenn, as well as Francis Lathrop and others, also contribute to the illustrations of Mrs. Schuyler van Rensselaer's second paper in her series on "Recent Architecture in America."

THE LOCOMOTIVE is published monthly by the Hartford Steam Boiler Insurance Company, Hartford, Conn. It is intended for free distribution through the various agencies of the company. Parties who wish to have the numbers mailed to them direct from the office as soon as issued, will so receive them by sending fifty cents a year to cover cost of mailing and postage. The Locomotive contains no advertisements other than that of the company that publishes it, and it is always filled with matter of interest and value to engineers and steam users. The bound volumes, indexed, are issued for mechanical and other libraries. In some cases they are sent complimentary. The company binds a limited number of them, and will supply those at a dollar a volume.

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MANUFACTURING.

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BALTIMORE.

MESSRS. R. M. SPEDDEN & Co., South Broadway, have a liberal amount of new and repair work on hand. They have done considerable steamship and tugboat repairs, and have their order books well filled for repairs on others.

MESSRS. DUFUR & Co., manufacturers of wire railing and ornamental wire work, have enough business on hand to keep them busy for some time to come. Their Southern business has very materially increased, their books showing a large number of orders lately completed, and as many again just received, in addition to other orders from other portions of the country.

MESSRS. JOHN C. FROEHLICH & Co., engineers and machinists, have finished some of the work mentioned lately in the MANUFACTURERS' RECORD, and are pushing rapidly to completion the new steamship which was mentioned some time since. They have also a large amount of miscellaneous repair work on hand.

MR. WM L. PETTIT, proprietor of the Novelty Boiler Works, 40 York street, reports a steady and growing business. During the past two or three months his trade has been of such a character as to compel him to increase his force and at times to work at night. He has a large amount of repair work on hand.

MR. JAMES BATES, manufacturer of Bates elevators, corner Pratt and President streets, is shipping his elevators to all parts of the South.

MESSRS. H. C. LARRABEE & Co., South Caroline street, have no new work to report, but have sufficient old orders on hand to keep their accustomed force busy. They are working principally for firms in the city.

MESSRS. W. J. CLARK & BRO , manufacturers of the improved patent hydrant, have been pushed for the past month with orders coming from this city and the South. Their hydrant has been a decided success, and on its merits has commanded a large sale.

THE Baltimore Safety Water-Tube Boiler Works, Zell & Burton, proprietors, write under date of June 17: "We are building 340-horse-power Zell safety boilers for Winchester Paper Co., Winchester, Va.; 200 horse-power for Don Jose, Borbon, Cuba, and 160-horse-power for Nescohaugue Manufacturing Co., Philadelphia. Are figuring with one firm for 5,000-horse power. Have moved in Vulcan Iron Works, where we make our own castings, steel drums, and do the entire work. Can fill any size order.

IN GENERAL.

D. W. K. PEACOCK, of Cartersville, Ga., writes to us that recently "there have been several deposits of yellow ochre of very fine quality discovered in this vicinity, one of which has been leased on royalty by the Prince Paint Company, of New Jersey, who say that ochre of the quality found here is very difficult to obtain. They a.e now working it. There seems to be several deposits of the same character in this immediate vicinity which could be had by persons engaged in that branch of industry. Should any one wish information on this subject, or in regard to any other mineral interests in north Georgia, I will take pleasure in giving it."

KNOWLTON MANUFACTURING Co., East Rockford, Ill., are having a flattering trade on their Brown slow-raising quick-striking hammer. While they in a conservative way claim fifty per cent. more force of blow and twenty-five per cent. saving in price over other power hammers, they undertake to show one hundred per cent. gain in actual tests on cold steel, and so satisfy buyers of the capacity and power of the Brown hammer as to be behind in filling their orders.

THE June crop reports are somewhat confusing, but, on the whole, the prospect seems good for abundant crops of the great staples. Of wheat, according to Talmadge's estimates, there will be a total product of 515,000,000 bushels, only 5,000,000 less than last year.—*Times-Union*, Jacksonville, Fla.

As the wheat crop of last year was only 421,000,000 bushels, Talmadge's estimate is for an increase of 94,000,000 bushels.

Progress in Texas.

Colonel R. M. McDowell, mining engineer of the Gould Southwestern system, who has just been on a tour of inspection over the lines of that company, gives some interesting statements of the condition of the crops, mines and cattle interests of the Texas and Indian Territory country, to the Houston Post. He says this has been an exceptional season in Texas, Arkansas and the Nation, and the heavy rains in Texas have proved a gr at drawback to the agriculturists; that is, a less acreage will result than if the weather had been more favorable. Yet, wheat, oats and corn look promising, while the cotton crop is very encouraging considering the heavy rains that have prevailed for so long.

With the warm, dry weather naturally forthcoming during the months of June, July, August and September, the yield of the great Southwest will be equal, or greater, this than it has been at any previous year.

The cattle interest is becoming immense, the growth of which can scarcely be measured by estimate or figures. The great trunk lines of the Missouri Pacific Railway will be taxed to their utmost to furnish transportation for this already vast and increasing traffic. It is estimated that from the first of this month to October not less than 1,000,000 head of cattle will be shipped over these lines from Texas to Northern points. In this no estimate is made of horses, sheep and swine that will seek Northern markets.

Extensive coal developments are being made by the Missouri Pacific Railway in both this State and the Nation. Although only in its infancy, the product of coal now reaches over four hundred thousand tons a year, which will be largely increased in a few years. The bituminous coal in the Nation is equal to Pittsburg coal for all purposes, while that from the new mines at Gorden, in this State, ranks with the best coals. In order to accommodate the increasing freight from this section more lines will need to be constructed, or the Missouri Pacific will have to double track, as the pressing wants of Texas are rapidly growing, and the country demands it.

HARDWARE.

The hardware market is fairly steady, with the volume of trade fully as great as at the corresponding time last year. In season goods there is considerable activity. Advices from all parts of the South report unusually large sales of agricultural tools and implements, and especially of improved labor-saving machinery.

We present with this issue the advertisement of The Scott Manufacturing Co. of Baltimore, showing their Scott's Rotary Knife Peach Parer. The family size has been strengthened in all essential parts. They have also put on the market for use of packers the Mammoth Peach Parer.

Their Improved Victor Apple Parer, Corer and Slicer, is a marvel of simplicity and efficiency. This season they have a push off.

This company have just invented an attachment to the Improved Victor and Oriole, that enables apples to be *pared and cored without slicing*, so that they can then be cut into any number of pieces.—This attachment accomplishes what has long been desired by all packers of apples, but *never accomplished before*. The attachments are furnished separate from the Parers.

The price of nails is quoted at about $2.40, though concessions can be obtained even on these figures.

The Register, of Wheeling, W. Va., says: "There seems to be no doubt in the minds of the manufacturers but that a halt has got to be made in the reduction of the selling price of nails Everybody conversant with the manufactory of nails knows full well that nails cannot be manufactured and sold at $2.25 a keg and the manufacturers realize anything on them. For the benefit of our readers we will state: 19½ kegs of nails constitute a ton of iron, and at $2.25 per keg would make the selling price of the ton amount to $43.87½. Now, close figuring on the cost of production of a ton of nails shows that the actual cost is a fraction over $43; this, of course, does not make any allowance for the interest on the capital invested by the manufacturers to make these nails. The above shows conclusively if the price of nails does not advance mills that are the least bit weak financially are bound to go to the wall."

A Big Printing House.

The largest printing establishment in the South, and one of the largest in the country, is that of Isaac Friedenwald, of Baltimore which is under the managership of Mr. William Deutsch. This house commenced business about six years ago, and since then has steadily increased its facilities for the most extensive and perfect work. Employment is now given to about 150 hands and over 20 printing and lithographing machines. Mr. Friedenwald does the bulk of the Johns Hopkins University printing,—the most difficult work, probably, ever undertaken by any printing establishment south of New York. He is also doing a $15,000 job of catalogue work for the Peabody Library, of this city, which requires the use of type in almost every ancient and modern language,—one of the fonts of type lately added to his assortment being the Arabic. Having these facilities, he is prepared to print books in pretty much any language, whether it be ancient or modern.

His label department is supplied with every facility, including latest improved bronzing and dyeing out machinery. In this line his business is very extensive, embracing large contracts for the leading tobacco manufacturers in the South and the fruit and oyster canners in this section. He has recently added a machine for simultaneously manufacturing and printing shipping tags and cards, and has the exclusive use of it in Maryland, Virginia, West Virginia and District of Columbia, as well as the right to fill orders from any point. By the use of this machine he claims to be able to furnish shipping tags at from 25 to 40% below prevailing market prices. Our readers can readily understand that, having these extensive facilities, Mr. Friedenwald is prepared to do all kinds of printing, lithographing and engraving in the very best manner. For fine commercial work in the printing or lithographing line Mr. Friedenwald can offer unusually favorable inducements as to style, price, &c., and our Southern readers who desire to obtain the finest quality of office stationery at low figures can find no better house to deal with.

Important to Southerners.

Persons arriving in New York via Cortlandt Street Ferry, by taking the 6th Avenue Elevated Train, corner Church and Cortlandt streets, can reach the Grand Union Hotel in 42d street, opposite Grand Central Depot, in twenty minutes, and save $3 carriage hire. If en route to Saratoga or other summer resorts via Grand Central Depot, all bagg ·ge will be transferred from hotel to this depot free. 600 elegantly furnished rooms $1 and upwards per day. Restaurant the best and cheapest in city. Families can live better for less money at this hotel than at any other first-class hotel in the city. ‡

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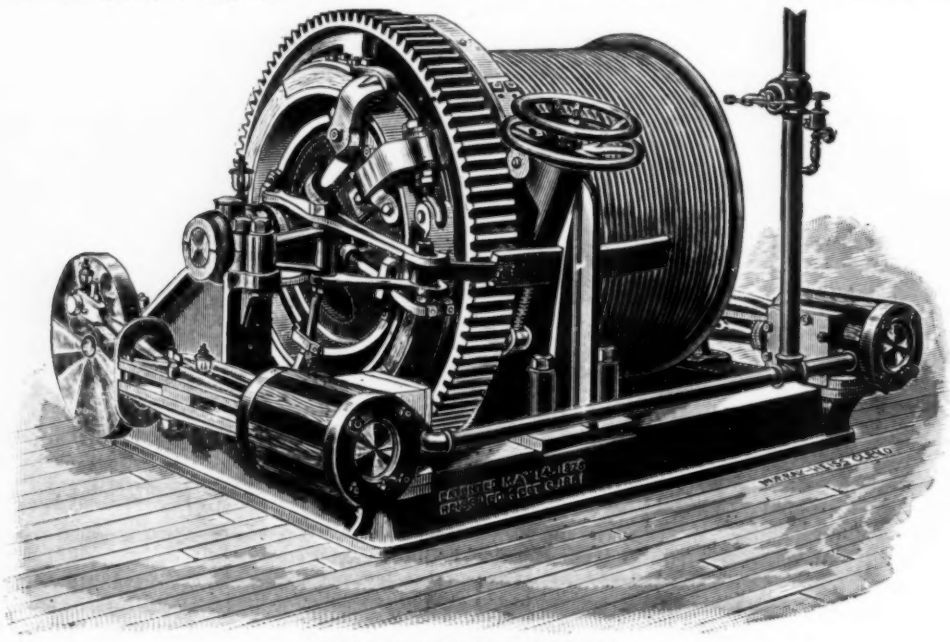
"Band Friction" Hoisting Engines.

The Webster, Camp & Lane Machine Co. are turning out, at their works at Akron, Ohio, a large number of their patent "band friction" hoists, several of which have lately been started in connection with a patented appliance for charging blast furnaces. With this plan the charging house is located at the foot of the stack, and the weighing all done as they are being loaded into a skip car, which is hoisted up an incline to the mouth of the furnace and automatically dumped. No manual labor is required at top of the stack, the bell and the dump being operated by the man in charge of the hoist at the bottom of the incline.

Several of the best furnaces in the country, which are rebuilding at the present time, are putting in hoists on this plan, and those now running are giving the best of satisfaction.

The mechanical detail of the hoist is shown so clearly in the accompanying illustration that it scarcely needs explanation.

The principle is a band set in motion, carried by powerful arms or levers, which by the operation of the large band wheel is tightened at will, as quickly or as gradually as need be, and this while the engines are running at full speed, whereby the full power is brought to bear in starting the load. Applying the power in this manner gives a very large saving of power over the V friction of gearing, there being simply the ordinary friction of the two journals of the drum shaft.



BAND FRICTION HOISTING ENGINE.

These hoists are also largely used on coal and ore docks, in connection with conveying machines, for unloading vessels, either on to dock or into railway cars, effecting a great saving over the old method of wheeling it out in barrows or over the more modern reversible engine and swinging derrick.

This company are also constantly building special plants of hoisting machinery for any kind of service, with automatic or adjustable cut-off engines and drums of any diameter up to 25 feet and weighing as high as 180 tons. Their purpose is to make the best machinery of this class, and the material and workmanship are of the highest grade. They furnish pumps, skips, cars, and everything wanted in this line, and also furnish engines, boilers, shafting, gears, pulleys, &c., for mills and factories.

E. MATHER, agent of the Jarvis patent furnace, Harrisburg, Pa., is setting two boilers for the Harrisburg Nail Works, Harrisburg, Pa.

The Future of the South.

An unusual number of prominent business men of the cotton States were in town last week, says the St. Louis Globe-Democrat, and one of them, a leading manufacturer, declared to a reporter that at no distant day cotton would become an incidental crop, and not the "money crop" of his part of the country. "Heretofore," said he, "we have planted cotton to pay our debts, and these debts would never have been made if we had planted something else—something to live on, and not something to sell with which to buy provisions. Why, the South can produce 6,000,000 bales of cotton now, and not feel the loss of the time. The farming population in Florida will commence furnishing early vegetables and fruits for the East and West at high prices in February, and as the seasons pass out those in higher latitudes will take it up, and the supply will flow North and East and West from our fields till June. About that time cotton will need attention. To raise it and get it ready for market will take until the 1st of November, and then, with our pockets full of cash, which we don't have to pay out for what we have been eating all the year, we commence the early vegetable and fruit business for the next year. So we will go on taxing the pockets of the rich and cultured people of other sections of the union enough for our early products to raise our cotton."

Others were quite as sanguine about the ability of the South to raise its own meat if the farmers would act wisely, claiming that the refuse from the vegetables and grain crops would materially aid them. One man said that their mild climate and abundance of feed would make a hog of 150 or 200 pounds in six months, and that in time but little Western meats would go into the South. As to beef, several very intelligent gentlemen were hopeful, claiming that the "no-fence law," which is now almost universal in the older cotton States, will insure them plenty and better beef cattle. It was specially urged that fine stock-raising in those States is now booming, and attention was called to numerous magnificent Jersey farms in many of the States.

Some fabulous statements were made about the amount of valuable timber in the forests of North Carolina and the neighboring States, beginning with the fields of black walnut, hickory, oak and chestnut in the mountains, now accessible by railroads, and thence passing down to the level lands of Georgia, South Carolina, Florida and Alabama, where there are acres of the best pitch pine. To hear a gentleman from Georgia speak of the "sea of timber" between Macon, Ga., and the coast of Brunswick, Ga., the principal shipping point, one would think that not even time could exhaust it. "Why," said he, "we shipped from Brunswick alone over 600,000,000 feet of sawed timber, not to mention the vast amount of heavy timber, ranging from 70 to 90 feet, last year, to all parts of the globe—to Europe, China and Japan—and there are always from fifteen to thirty heavy vessels loading at our wharves. This is only the beginning. All we lack is facilities for getting this lumber to the water. We have capital now to penetrate the forests, and there seems to be no end to it."

Among the visitors were several cotton manufacturers, most of them Northern men, who "moved the mill to the cotton." They were thoroughly aroused, and to hear them talk of their wonderful success the listener would imagine he could see the grass growing in the dilapidated cities of New England, now rich and cleanly kept through the profits of their manufactories. These gentlemen claimed as some of the advantages of manufacturing cotton in the South, the proximity of the mills to the cotton fields, the saving of freight and insurance, and handling waste and tollage. Climatic advantages they laid particular stress upon, as well as the price of fuel and the plentifulness of water power. As to the labor, it was conceded to be more manageable and tractable than in the East or North, and sure to become efficient very soon. A gentleman who represented a small mill in South Carolina said that he bought a great deal of the cotton he used "in the seed," and, while he claimed no advantage in the price to the farmer, it was profitable to him, inasmuch as it saved baling, being run directly from the gin on to the cards. Many of the first cotton mills in the South were located on convenient streams to secure good water-power, and often from six to twenty miles from a market town or railroad. To some of these mills railroads have been run; in most cases the manufactured goods have been hauled to railroads at some expense, but this has been counteracted by getting the cotton in the seed or bales delivered at the mills free of cost, also making a saving of commissions to purchasers Those so situated are still satisfied; but the idea now is that steam is as cheap as water, coal being cheap and growing more so every year. Mills recently built and in contemplation are seeking the market towns, where transportation is more convenient, although labor is not always so cheap. It is claimed that many advantages are derived from this plan. For instance, in getting up stock for a mill a merchant will more readily invest if located in a town, because he secures a part of the trade of the operatives, and the town grows apace, and his property is enhanced in value by its presence.

In reply to an inquiry as to where the money came from to build these factories, it was said that it came from capitalists and mill men in the East, and that any town conveniently situated could secure a factory by subscribing half the capital stock, capitalists from the East being ready and anxious to engage in it where they had the aid and good will of the citizens.

"Where are all the operatives to come from to run these mills without affecting farm labor?" was asked.

"Why, the women and children are principally employed, who are useless otherwise, and you would be astonished to witness the change that will come over a community in six months after the completion of a mill. The women and children are neat and clean and tidy appearing, and seem to have forgotten their old ways, and feel they are somebody, with work and money of their own, being workers and helpers instead of drones in the great hive of human progress In the spinning of yarns and the manufacture of common cotton goods very little able-bodied help is required.

The Production of Precious Metals.

The Director of the Mint, in his annual report on the production of precious metals, places the total production during the calendar year of 1883 at, gold, $30,000,000; silver, at its coining rate, $46,200,000, produced by the following States and territories:

	Gold.	Silver.
Arizona	$960.000	$52,000,000
California	14,120,000	1,400,000
Colorado	4,100.000	17,370,000
Dakota	3,200,000	150,000
Idaho	1,400.000	2,100,000
Montana	1,[illegible]00,000	6,000,000
Nevada	2,[illegible]20,000	5,4[illegible]0,000
New Mexico	280,000	2,805,000
Utah	140.000	5,620,000

The remainder was produced principally in Alaska, Oregon, Georgia and North Carolina. This is a reduction of $2,500,000 in gold and $600,000 in silver from the yield of 1882.

List of Patents.

The following patents were granted to citizens of the Southern States, bearing date June 10, 1884. Reported expressly for this paper by Louis Bagger & Co., mechanical experts and solicitors of patents, Washington, D. C.

300,191. Beal, W. C., Fernandina, Fla. Spark arrester.

299,950. Boyd, L. J. M., Annapolis, Md. Balanced slide-valve.

299,211. Campbell, E. F., L. C. Noble and M. G. Howe, Houston, Texas. Nut-lock.

300,052. Davis, A. G., Baltimore, Md. Secondary battery.

300,059. Fisher, C. H., Wheeling, W. Va. Grate.

300,340. Foat, R. H., Weatherford, Texas. Well bucket.

300,342. Gambrell, Robert, Guntown, Miss. Combined bale-band bender, nail extractor, &c.

300,075. Hicks, Amanda M., Clinton, and Alonzo Dishman, Paducah, Ky. Heating and ventilating buildings.

300,078. Idner, G. W., Thomasville, Ga. Sail-clamp.

299,986. Jervis, A. M., Jonesborough, Tenn. Fruit evaporator.

299,987. Jno. Morris, New Orleans, La. Nut washer.

299,269. Lamar, J. S., Augusta, Ga. Telegraphic relay.

300,104. Montague, J. B., J. T. Booker and E. C. Dinning, Franklin, Ky. Sash balance.

300,106. Moon, Henry, Thomasville, N. C. Amalgamator.

300,111. Neider, F. A., Augusta, Ky. Strap and buckle loop.

300,112. Nelson, R. E., Sr., Cumberland county, Va. Fire-escape.

300,335. Patrick, A. M., Brewton, Ala. Rice-hulling machine.

Petree, R. F., Germantown, N. C. Portable fruit.

300,138. Scherer, John, Baltimore, Md. Hatchway guard.

300,141. Schott, Henry, Richmond, Va. Printing machine.

300,149. Smith, John J., Kaufman, Texas. Violin tail-piece.

THE MARKETS.

OFFICE MANUFACTURERS' RECORD,
BALTIMORE, June 18, 1884.

There has been no change of importance in the financial affairs of the country since our last issue, and business generally continues as then reported. In most branches of trade and manufactures there is a very general lull, as usual during the summer months, although the inactivity prevai ing is rather greater than for some time past. The outlook for the crops continues very cheering, and, with a fulfilment of present indications, there will be excellent harvests.

The manufactured iron trade is still dull and depressed, with prices cut very low to induce buyers to invest. We repeat the nominal quotations, viz:

Ref. Bar Iron, 1 to 6x⅜ to 1......	℔ ℔.	1.9@ 2 c
" " 1 to 4⅜x1⅜ to 1..	"	1.9@ 2 c
" " ⅜ to 2, round and square........................	"	1.9@ 2 c
Hoop Iron, 1⅜ wide and upward	"	2 8@ 3 c
Band Iron, from 1⅜ to 6 in. wide	"	2⅜@ 2.6c
Horseshoe Iron..................	"	3.2@ 3.3c
Norway Nail Rods..............	"	5 @ 5⅜c
Black Diamond Cast Steel.....	"	10 @ 11 c
Machinery Steel...............	"	4⅜@ 4⅜c
Spring Steel..................	"	3⅜@ 4 c
Common Horse Nails...........	"	10 @ 11 c
Railroad Spikes, 5⅜x9-16........	"	2.5@ 2.6c

The demand for pig iron is moderately fair for best grades, which are scarce, but common iron is not wanted, and the market is overstocked. We quote, viz:

Baltimore Charcoal Wheel Iron (all Baltimore ore)..........................	$28 00@29 00
Virginia C. B. Charcoal Wheel Iron..	28 00@— —
Anthracite, No. 1.......	21 00@23 00
" " 2......	20 00@21 00
" " 3......	18 00@20 00
" Mottled and White.....	16 00@17 00

Louisville Iron Market.

Specially reported by GEO. H. HULL & Co., Commission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., June 16, 1884.

The market continues quiet and without change in prices or tone. Sales are confined almost entirely to purchases for immediate consumption, but are fully up to the sales of last year at this season.

PIG IRON.

Southern Coke, No. 1 Foundry......	$18 00@19 00
" " " 2 "	17 00@17 50
Hanging Rock Coke, No. 1 Foundry.	18 50@19 50
" " Charc'l, " "	22 00@23 50
Southern Charcoal, No. 1 Foundry..	19 00@21 00
Silver Gray, different grades.........	15 00@17 50
Southern Coke, No. 1 Mill, Neutral..	16 00@16 50
" " " 2 " " ..	15 00@15 50
" " " 1 " Cold Sh't	15 25@15 75
Southern Charcoal, No. 1 Mill........	16 00@18 00
White and Mottled, different grades	14 00@14 50
Southern Car Wheel, stan'd brands.	26 00@27 00
" " " other brands..	22 00@24 00
Hanging Rock Cold Blast............	27 00@28 00
" " Warm "	21 00@23 00

Specially reported by W. B. BELKNAP & Co., Nails, Wire, Iron, Hardware, Carriage and Wagon Goods.

LOUISVILLE, KY., June 16, 1884.

Trade is quiet, as is usual at this season. Many of the mills along the river have closed down, and others are preparing to follow.

We note no quotable change in bar iron and nails. Prices are so near cost that there is small chance for decline, and there is little likelihood of any advance for at least a month to come.

Barb wire is firm and fairly active. Weather is seasonable and prospects are good for ample crops throughout this section.

Philadelphia Iron Market.

PHILADELPHIA, June 16, 1884.

Prices for special and standard brands of pig iron are very firm at the quotations given for weeks past, viz: $20 to $21 for No. 1 foundry; $19 for No. 2; $18 to $18.50 for Gray Forge. There is no demand for except current requirements, but production is so light that stocks are not accumulating. Inferior irons are plentiful and sell slowly at very low prices. Mill men are buying very small lots, and not anticipating requirements, although most of the mills will continue to run all summer, and no lower prices are probable in forge iron.

Foreign irons are in very little demand; prices are $19.50 to $20 for Bessemer pig; $37 to $40 for Bessemer slabs, and $28 for 20% spiegeleisen. Holders are very anxious to sell and less than quoted prices would probably be taken, but buyers are not anxious to stock up on any terms.

Manufactured iron of all kinds is very quiet; prices are steady at 1.70 to 2 cts., according to quality. Plate iron shows a little more firmness, though very little business is being done. Bridge works have all they can do. Sheet iron is active.

Nails are selling at $2.35 in large lots, up to $2.50 in small lots, and the demand for building requirements keeps up well. Very little, if any, restriction of production is probable this summer.

The steel rail market is without any special features of interest; only small sales have been effected. There is some inquiry, but not of a character likely to lead to large business at any early day. Prices range from $32 to $33 at mill, with probability that lower prices would be taken for large lots were any wanted.

Old rails are declining, and $19 would probably be accepted for a large order; one or two sales have been reported at $19.50. Stocks are offered freely at $20 to $20.50. Scrap is unusually quiet and dull; prices are entirely nominal.

Chattanooga Iron Market.

Specially reported by S. B. LOWE.

CHATTANOOGA, TENN., June 16, 1884.

There is absolutely no change to note in business of any kind. While pig iron is low, yet the furnaces are mostly sold from two to six months ahead; no disposition to contract for round lots at present prices. All but two are in full blast and turning out standard grades. We continue quotations, viz:

No. 1 Foundry........................	$17 00	@18 00
No. 2 Foundry........................	16 00	@16 50
Gray Forge...........................	14 00	@15 00
Car-Wheel Metal.....................	22 00	@24 00
Nails, car-load lots..................	2 25	@— —
Bar Iron..............................	1 70	@— —
Old Rails.............................	18 00	@19 00
Wrought Scrap, No. 1.............	14 00	@— —
" " No. 2.............	11 00	@— —
Cotton Tie Clippings...............	10 00	@— —
Spikes (Railroad)...................	2 35	@— —
Light Rails..........................	2 00	@— —
Barbed wire—galvanized.........	6	@— —
Barb wire—Cambria link.........	6	@— —

METALS.

TIN PLATES.

BLOCK TIN.

"Lamb and Flag," and "Straits."

Large Pigs..	21
Small Pigs..	22
Bars..	25

TINNERS' SOLDER.

No. 1 Refined..................................	13
Market Half-and-Half........................	15
Strictly Half-and-Half........................	16

ROOFING PLATES.

IC, 14x20, Choice Charcoal Terne...........	5 75
IX, 14x20, " " "	7 50
IC, 20x28, " " "	11 50
IX, 20x28, " " "	15 00
IC, 20x28, Extra fine quality, charcoal roofing, genuine "old style" redipped.	15 75
IX, 20x28 " " " ..	19 75

TIN PLATES.

IC,	10x14, Charcoal....................	6 50
IX,	10x14, "	8 50
IC,	12x12, "	6 75
IX,	12x12, "	8 75
IC,	14x20, "	6 50
IX,	14x20, "	8 50
IXX,	14x20, "	10 50
IXXX,	14x20, "	12 50
IXXXX,	14x20, "	14 50
IX,	20x28, "	18 00
DC,	100, Plate "	6 25
DX,	100, " "	8 25
DXX,	100, " "	10 25
DXXX,	100, " "	12 25

COKE PLATES.

IC, 10x14, bright, "B. V." grade.............	5 25
IC, 14x20, "	5 25
IX, 14x20, "	7 25
IC, 10x20, Gutters..............................	9 25

SHEET ZINC.

In casks of 600 lbs., ℔ ℔....................	6
In smaller quantities, ℔ ℔..................	7

BABBITT METAL.

A 1..	15
No. 1 Ordinary..................................	9
Antimony..	18
Excelsior Babbitt Metal, No. 2..............	10
" " " " 4..............	9

LEAD.

Pig..	4⅜
Bar, (15 oz. bars)................................	6⅜
Sheet..	7⅜
Pipe, full coils....................................	6⅜

COPPER.

Tinned Sheathing, 14x48, 14, 16, 18 oz.......	28
" " Planish'd, 14x48, 14, 16 oz.	40
" " " Boilers 7, 8, 9..	42
Copper Pit Bottoms..............................	30
Tinning extra.....................................	15
Brazier's Copper, 15 to 100 ℔...............	30
" " 10 to 12 ℔...............	32
" " 8 ℔...............	34
" " 6 ℔...............	36
Bolt "	30
Tinning extra.....................................	40

BRASS.

ROLL AND SHEET BRASS.

Brown & Sharpe's Gauge the Standard.

New List, Jan. 17, 1884.

Dis 10@20 %

COMMON HIGH BRASS.

Wider than / and including.	2 / 10	10 / 12	12 / 14	14 / 16	16 / 18	18 / 20
To No. 20, inclusive..	.21	.22	.23	.25	.27	.29
Nos. 21, 22, 23 and 24..	.22	.23	.24	.26	.28	.30
Nos. 25 and 26........	.22⅜	.23⅜	.24⅜	.27	.29	.31
Nos. 27 and 28........	.23	.24	.25	.28	.30	.32

Add 9 cts. ℔ ℔. for sheets cut to particular widths and lengths.

Add ⅜c. ℔ ℔. additional on each number thinner than Nos. 28 to 38, inclusive.

Brass thinner than No. 38 is Platers' Brass, at..55 cts.

Printers' rules..45 cts.

Printers' Sheets and Plates cut to particular sizes and lengths to No. 20, inclusive.....30 cts.

Brazing, Spinning and Spring Brass, one cent more than common High Brass.

Low Brass four cts. ℔ ℔. more than common High Brass.

Gilding, Oreide and Bronze seven cts. ℔ ℔. more than common High Brass.

SLITTING METAL.

Add to list as follows:

Over ⅜ in. to 2 in., inclusive, Nos. 12 to 20, inclusive....................................	⅜c.
Over ⅜ in. to ⅜ in., inclusive, Nos. 12 to 20, inclusive....................................	1
⅜ in. and narrower, not less than............	4
Over ⅜ in. to 2 in., inclusive, Nos. 21 to 28, inclusive....................................	1
Over ⅜ in. to ⅜ in., inclusive, Nos. 21 to 28, inclusive....................................	2
⅜ in. and narrower, Nos. 21 to 28, inclusive, not less than..................................	6
Over ⅜ in. to 2 in., inclusive, Nos. 29 to 32, inclusive....................................	1⅜
Over ⅜ in. to ⅜ in., inclusive, Nos. 29 to 32, inclusive....................................	3
⅜ in. and narrower, Nos. 29 to 32, inclusive, not less than..................................	12
Over ⅜ in. to 2 in., inclusive, No. 33 and thinner......................................	3
Over ⅜ in. to ⅜ in., inclusive, No. 33 and thinner......................................	6
⅜ in. and narrower, No. 33 and thinner, not less than..................................	18
Slit Metal cut to particular lengths, ℔ ℔. additional....................................	5

PLATERS' OR GOLD METAL.

In bars..	40c.
In ingots..	43c.
In ingots, planed or polished..................	46c.

BRASS TUBING.

Brown & Sharpe's Gauge the Standard for all Tubing. Per ℔.

Plain, to No. 20, inclusive..........................	
Above 5-16 inch to 3 inches, inclusive.........	$ 35
Plain, to No. 20, above 3 inches................	45
" 5-16 inch to No. 20......................	45
" ⅜ inch	60
" 3-16 inch..	1 00
" ⅜ inch	1 50

Bronze Tubing 3 cents per pound more than Brass.

Nos. 21, 22, 23, two cents advance on list for each number.

Nos. 24, 25, 26, four cents advance on list for each number.

Above No 26, special rates.

All Mandrel-drawn Tubes, ⅜ inch and above, five cents advance on list prices.

All Mandrel-drawn Tubes under ⅜ inch, twenty-five cents per pound advance on list prices.

Fancy Tubing to No. 20..........................$0 43

English, Scotch and Extra Pattern Fancy Tubing to No. 20.............................. 48

Tubing sawed or cut, 2 to 4 feet long, one cent advance on list.

Add to one cent one-half cent for each additional cutting under two feet.

WIRE IN COILS.

Old English gauge the Standard.

	Common High Brass.	Low Brass.	Gilding, Bronze and Copper.
All Nos. to No. 16, inc........	$ .22	$ .26	$ .30
Nos. 17 and 18,.....	23	27	31
" 19 and 20.....	24	28	32
" 21.............	25	29	33
" 22.............	26	30	34
" 23.............	28	32	36
" 24.............	30	34	38
" 25.............	32	36	40
" 26.............	35	39	43
" 27.............	38	42	46
" 28.............	42	46	51
" 29.............	45	49	54
" 30.............	48	52	62
" 31.............	51	55	67
" 32.............	55	59	73
" 33.............	59	63	82
" 34.............	64	68	95
" 35.............	70	74	1.30
" 36.............	76	80	1.50
" 37.............	1.00	1.04	1.70
" 38.............	1.30	1.34	2.00
" 39.............	2.00	2.00	3.25
" 40.............	2.60	2.60	5.75

Spring Wire, 2 cts. ℔ ℔. advance.

Whitened Wire, 3 cts. ℔ ℔. advance.

Flat, Square and Half-Round Wire 4 cts. advance on Round Wire.

Fancy Wire not less than 10 cts. advance on Round Wire.

Spooling on one-pound spools 12 cts. ℔ ℔. extra.

Spooling on ten-pound spools or more, 2 cts. ℔ ℔. extra.

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Poems by Celia Thaxter, Louise Chandler Moulton, John Vance Cheney and others.
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Fincastle, a mountain town of southwest Virginia, only 5 miles from railroad, noted for its splendid climate and great healthfulness, with scenery unsurpassed in the State, offers a splendid opening for a hotel, either large or small.—Accommodations entirely inadequate to the demand.
A hundred yards or so from the town is a mineral spring, the waters of which possess great medicinal virtues, especially for liver and stomach troubles,—dyspepsia, &c. In fact this water has never been known to fail, even in the most aggravated cases of dyspepsia.
An unusually favorable opportunity is offered or building a hotel. Address
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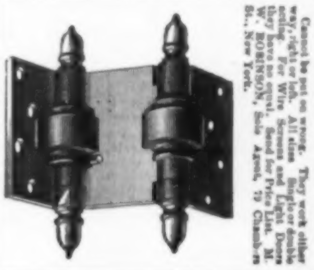
Secy. Fincastle Mineral Water Co.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Cannot be put on wrong. They work either way, right or left. All sizes. Single or double acting. For Wire Screens and Light Doors they have no equal. Send for Price List. M. W. ROBINSON, Sole Agent, 79 Chambers St., New York.

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☞ Practices in all the State and Federal Courts.

Cincinnati Iron Market Report.

Specially reported by ROGERS, BROWN & Co., Pig Iron Commission.

CINCINNATI, June 16, 1884.

There is not a new thing to report in the pig iron market. Locally, orders are very scarce. The mills and stove works are the principal consumers at this centre.—In the former, labor troubles are likely to cause a general shut-down. The men having defeated a reduction in wages, are now disposed to move a step further and ask an advance. A ten per cent. increase is said to be actually demanded. The stove moulders' fight has now been in progress six months. The founderies are determined to free themselves from union dictation, and two of them are running with non-union men, and are making gradual progress. The others are idle.—There is a steady run of small orders from the outside territory reached by Cincinnati, and it is expected that these will slowly increase and a better feeling begin to prevail as soon as growing crops are beyond danger. We quote for cash:

HOT-BLAST FOUNDRY.	
Hanging Rock C. C., No. 1	$21 50@23 00
" " " " 2	19 50@21 00
Southern " " 1	19 50@20 00
Strong Coke, " 1	18 00@18 75
" " " 2	17 25@17 75
" " " 3	17 00@17 25
Soft Stone Coal, " 1	18 50@19 25
" " " 2	17 00@17 75
FORGE.	
Strong Neutral, No. 1 Mill	16 00@16 00
Cold Short, " 1 "	15 00@15 50
CAR WHEEL AND MALLEABLE.	
Hanging Rock C. B.	30 00@31 00
" " W. B.	20 00@24 00
Southern Car-Wheel Iron	24 50@26 00
Lake Superior " "	23 00@24 50
" " Malleable	24 50@25 50

Specially reported by E. L. HARPER & Co.

CINCINNATI, June 16, 1884.

The conditions prevailing at the date of our last report continue unchanged. Demand is light, and round lots are not moved, except rarely, when a furnace obliged to realize consents to a figure below the market. The rolling mills hereabouts are closed down. The quotations below fairly represent the transactions of the past week:

FOUNDRY.	Four Months.
Hanging Rock Charcoal, No. 1	$22 00@23 00
" " " " 2	20 00@22 00
Strong Neutral Coke, " 1	18 00@18 50
" " " " 2	17 00@17 50
American Scotch, " 1	18 00@18 50
GREY FORGE.	
Neutral Coke	16 00@16 50
Cold Short	15 50@16 00
CAR WHEEL AND MALLEABLE.	
Hanging Rock, strictly cold blast	26 00@27 00
" " " warm "	23 00@24 00
Lake Superior Charcoal, all grades	24 00@25 00
South. Car Wheel, strictly cold blast	26 00@26 50

St. Louis Iron Market.

Specially reported by HOFFER & Co., Pig Iron and Iron Ore, No. 318 Olive Street.

ST. LOUIS, June 16, 1884.

There is nothing new to report in the iron market. It continues about the same as last week. Quote:

HOT-BLAST CHARCOAL.	
Missouri	$19 00@20 00
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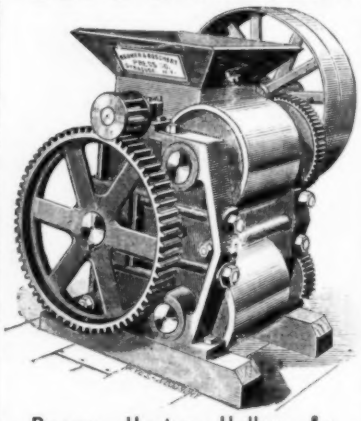

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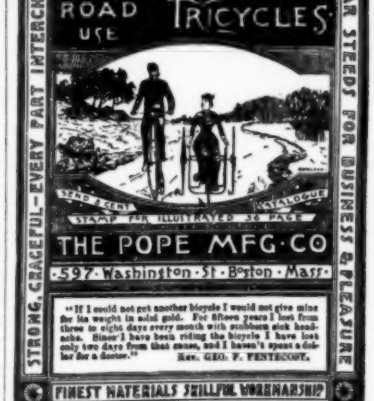

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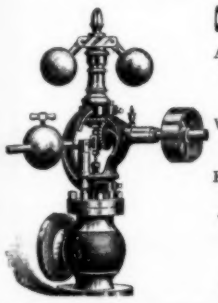

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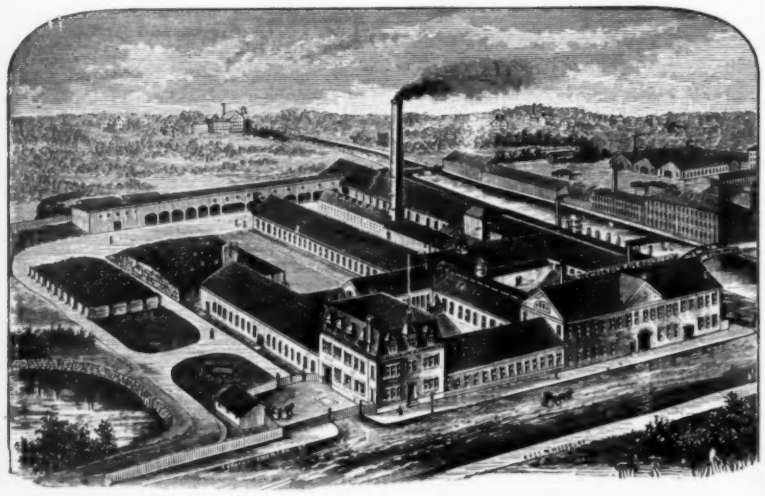

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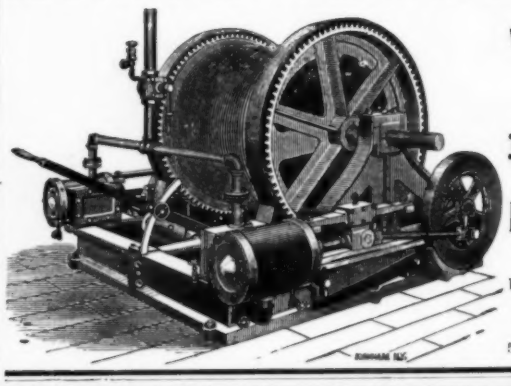

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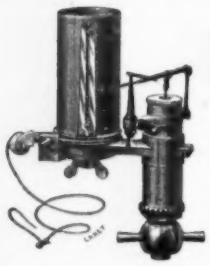

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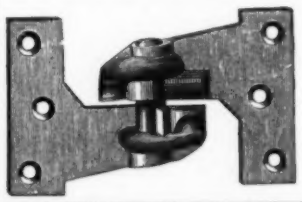

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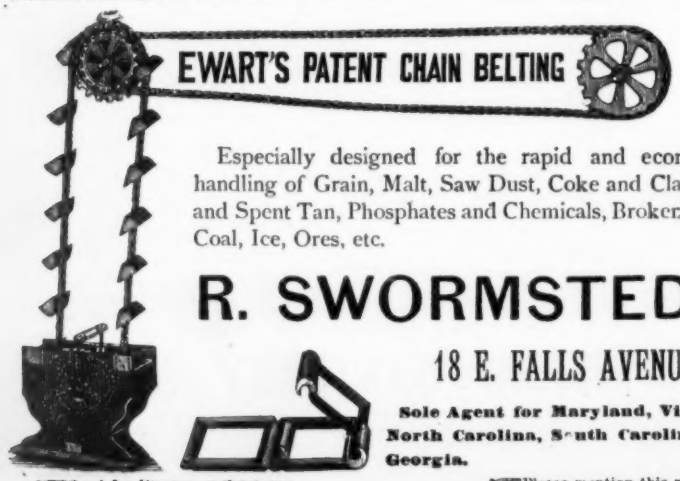

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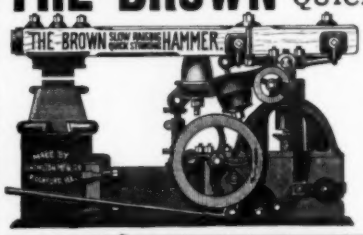

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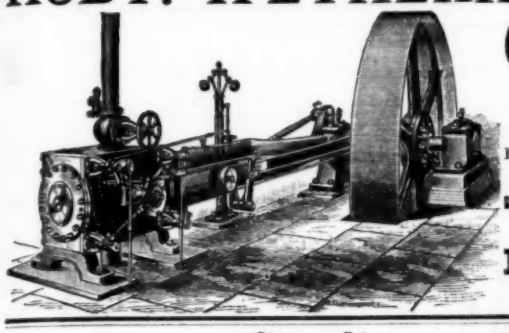

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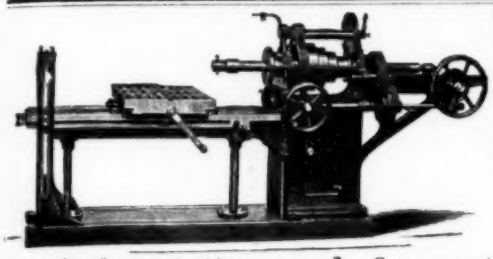

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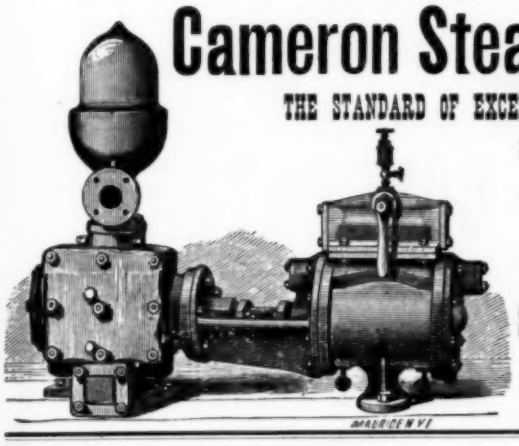

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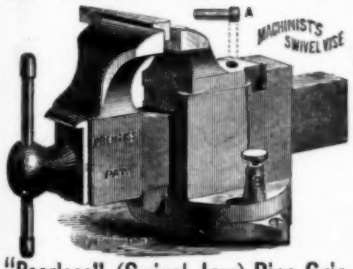

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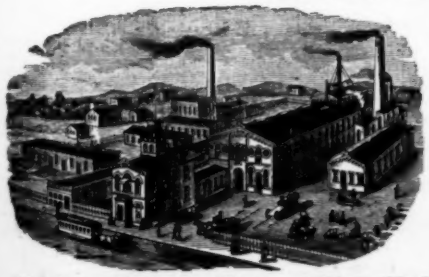
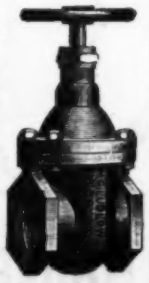


VALVES

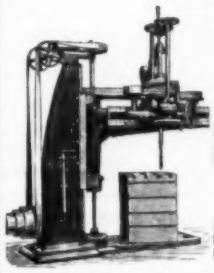
Double and Single Gate, ¼ inch to 48 inch,—outside and inside Screws, Indicators, etc., for Gas, Water, Steam, Oil.
Send for Circular.



Also, Fire Hydrants, Yard and Wash Hydrants, Check and Foot Valves.

WM. SELLERS & CO.

PHILADELPHIA.



IRON AND STEEL-WORKING MACHINE TOOLS

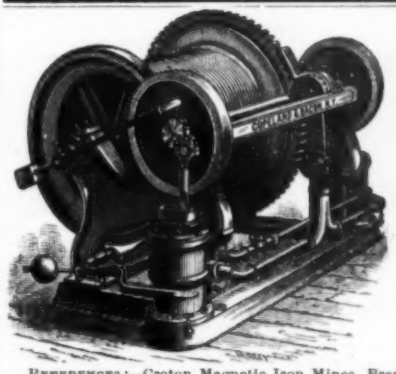
For Railways, Machine Shops and Rolling Mills,

—) ALSO (—

Shafting, Pulleys, Hangers, Couplings, &c.

Were the first parties to design and introduce the BALL and SOCKET HANGERS, ADJUSTABLE COUPLINGS, and the system of selling Shafts, Pulleys and Couplings by the piece. Will be pleased at any time to give estimates for work in place, in mills, or at our works.

☞ **Price-Lists and other information given when requested.**



BACON

Winding Engines,
Furnace Hoists,
Mine Hoists.

(With or Without Boilers.)

"Mining PLANTS," Concentrating Works and Dredging Machinery Furnished Complete.

COPELAND & BACON
85 Liberty St., New York.

REFERENCES:—Croton Magnetic Iron Mines, Brewster's, N. Y. Crown Point Iron Co., Crown Point, N. Y. Belvidere Iron Co., 52 Broadway, New York. Sea Island Chemical Co., Beaufort, S. C.

THE NATIONAL CHUCK

WARRANTED

THE BEST CHUCK IN THE MARKET.

MANUFACTURED BY

THE National Mfg. Co.

MANUFACTURERS OF

Combination, Universal and Independent

LATHE CHUCKS,

—NEW HAVEN, CONN.—

THE MIDVALE STEEL CO.

TIRES AND AXLES

OF EVERY DESCRIPTION.

—TOOL AND MACHINERY STEEL.

—SPRING AND GUN STEEL.—

CRUCIBLE AND OPEN HEARTH STEEL.

WORKS & MAIN OFFICE:
Nicetown, Philadelphia, Pa.

BRANCH OFFICE:
333 Walnut St., Philadelphia, Pa.

The Babcock & Wilcox Water Tube Boilers.

BRANCH OFFICES:

50 Oliver Street, Boston.

32 N. 5th St., Philadelphia.

96 Fourth Ave., Pittsburg.

54 Carondelet St., N. Orleans.

64 W. Third St., Cincinnati.

BRANCH OFFICES:

64 S. Canal St., Chicago.

561 Mission St., San Francisco.

San Ignacio, No. 50, Havana, Cuba.

107 Hope Street, Glasgow, Scotland.

Manufactured by the **BABCOCK & WILCOX CO., 30 Cortlandt Street, NEW YORK.**

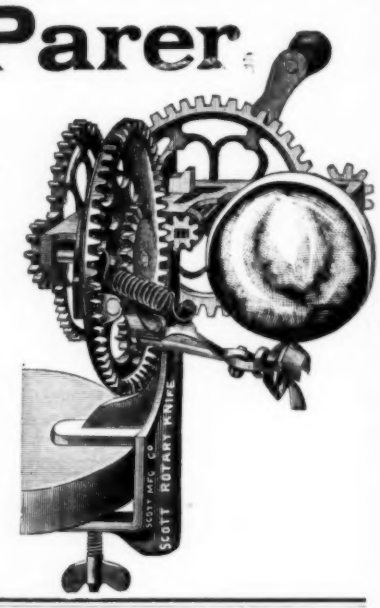
SAML. G. B. COOK & CO., HARDWARE

MANUFACTURERS' AGENTS
63, 65, 67 and 69 German St., BALTIMORE, MD.

AGENTS FOR

T. V. Allis Mnfg. Co.—Buckthorn Wire.
American Screw Co.—Screws, Rivets, Bolts, etc.
Branford Lock Works.
Boss Molasses Gates.
Carr & Crawley.—Shelf and Carriage Hardware.
Lancaster Bolt Co.—Eagle Carriage Bolts.
Lawson & Brenizer.—Hay and Manure Forks
Meriden Britannia Co.—Rogers Bros.' A1 Plated Goods.
Northwestern Horse Nail Co.
Nicholson File Co.
Naugatuck Cutlery Co.
Globe Horse Nail Co.
Clark Hardware Co.—Spring Butts, Screen Frames, etc.
Cowles Hardware Co.—Geers, Butts, Screw Drivers, etc.
H. Chapin's Sons.—Rules, Levels, Gauges, etc.
Clark Bros. & Co.—Bolts.
Essex Horse Nails.
A. Field & Sons.—Tacks, Finishing Nails, etc.
Hubbard, Bakewell & Co.—Lippincott Axes, Saws, Shovels and Hoes.
Holroyd & Co.—Stocks and Dies.
Henry W. Kipp.—Hammers.
Klein, Logan & Co.—Picks, Mattocks, Sledges, etc.
Kimball's Patent Shovels and Spades.
Lockwood Steel Hoes.
Peck Bros. & Co.—Brass Cocks.
Payson Mnfg. Co.—Building Hardware.
Patton Mnfg. Co.—Enameled and Tin'd Hollow Ware.
Roy & Co.—Strap and T Hinges and Wrought Butts.
Saranac Horse Nail Co.
Scott Mnfg. Co.—Peach and Apple Parers, etc.
George M. Scott.—Blacksmith Bellows.
Wilson Mnfg. Co.—Coffee Mills, Vises and Ship Hardware.
Walker's Horse and Mule Shoes.
International and Pimlico Brand of Horse Nails, Foreign and Domestic Hardware, Cutlery, Chains, Pistols, etc.

Scott's ROTARY KNIFE Peach Parer



THE ONLY PEACH PARER, THE BEST APPLE PARER,

MADE IN TWO SIZES: "FAMILY" and "MAMMOTH."

—ALSO—

"IMPROVED VICTOR" Apple Parer, Corer and Slicer. "ORIOLE" Apple Parer, Corer and Slicer.

GOLD MEDAL APPLE PARER.

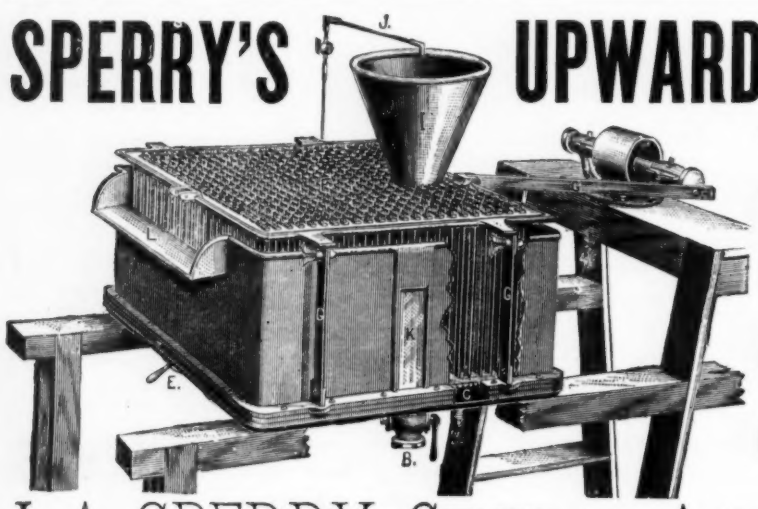
PHILIP'S Fruit and Vegetable Evaporator. "UNIVERSAL" and "NEW IDEA" Can Openers.

"MEDALLION," "VICTORIA" and FOAM Egg Beaters.

IMPROVED ✻ 1884 ✻ HOPPER ✻ CHERRY ✻ SEEDER.

SCOTT MANUFACTURING CO., Baltimore, Md.

SPERRY'S UPWARD ✻ JET ✻ CONCENTRATOR,



The cheapest and best in the world. Adapted to all concentratable ores and slimes of GOLD, SILVER, COPPER, TIN, ZINC, &c., and MILL TAILINGS.

Will Concentrate from 50 to 100 tons in 24 Hours

PRICE $300. NO ROYALTY.

Weight—140 Pounds. Power Required only ½ of 1 Horse.

Sperry's ✻ Wet ✻ Sizing ✻ Machine

Small and Compact. Entirely New Principle.

Crushing Rolls, Rock Breakers, Stamp Mills and General Mining Machinery and Supplies.

Full-size Concentrating Plant in operation at 12 Cortlandt St. Send for Circular.

J. A. SPERRY, GENERAL AGENT, 12 CORTLANDT ST., N. Y.

POST CHAIN.

HITCHING WEIGHT.

GREAT REDUCTION ON

HALTER CHAINS, REIN CHAINS AND POST CHAINS.

Prices Positively Reduced Twenty Per Cent.

And as we manufacture the Chain in our own extensive Chain Works we offer a superior grade of Chain, fully warranted and guaranteed.

Our New Halter Chain possesses many superior advantages over all others in the market. A most important feature in these Chains is a Loose or Sliding Ring encircling the Chain between the permanent Rings on the Chain, (the Loose Ring is not illustrated in the cut,) which allows the Chain to be snapped around a large or small post with equal facility.

We also offer to the Trade our Extensive Line of

COVERT HARNESS SNAPS, CHAIN AND ROPE GOODS,

For Sale by all Leading Jobbers at Manufacturers' Prices.

Send for Illustrated Catalogue and Price-List.

COVERT MNFG. CO., WEST TROY, N. Y.

TOOLS.

IMPROVED POWER OR HAND PLANER.

Planes 27 in. long, 12 in. wide, 8 in. high.

MACHINISTS, ENGINEERS, MODEL MAKERS

and all classes of Mechanics can find **TOOLS** to suit them at

184 to 188 Washington St.

BOSTON, MASS.

A. J. WILKINSON & CO. Catalogues free.

STEPHENS' VISES.

FLAT and SWIVEL BASES; SOLID JAWS; STEEL FACED and SOLID STEEL BARS; ADJUSTABLE ATTACHMENTS.

For Jewelers, Machinists, Car and Locomotive Works and all other Vise Work they *maintain their superiority in strength, firmness of grip, durability and make;* while affording the *greatest economy in time and labor.* Special Vises for Amateurs and Wood-Workers. Sold by the Trade. Send for Circular.

NATHAN STEPHENS, Proprietor,
41 Dey St., NEW YORK.

GOVERNORS { For Water Wheels } **Cohoes Iron Foundry & Mch. Co.**

Send for Catalogue. Cohoes, N. Y.

HARDWARE.

Baltimore WHOLESALE Prices

ANVILS.

Eagle and Vulcan.....₹ lb 10c, dis 20 %
Wright's.....10½c
Armitage's Mouse Hole.....9½ c
Trenton.....10¾c
Wilkinson's.....10½ c

AUGERS AND BITS.

Conn. Valley Mfg. Co..... } dis 60 % from list of Jan. 7, 1880.
Douglass Mfg. Co.....
Ives.....
Cook's Douglass Mfg Co.....dis 40&10 %
Griswold.....dis 50&10 %
Patent Solid Head.....dis 25 %
Russell Jennings' Auger, Dowel, Machine-Dowel and Hand Rail Bits.....dis 10&10&10 %
Ives' "Jennings'" Bits.....dis 40&10&10 %
Expans. Bits, Clark's, small, $18; large, 26..dis 25 %
Expansive Bits, Ives'.....$20@30, dis 33⅓ %
Expansive Bits, Blake's.....$20, dis 40 %
Hollow Augers, Ives.....dis 25 %
Hollow Augers, Douglass'.....dis 25 %
Hol. Aug., Bonney's Adjust., ₹ doz $48, dis 25&10 %
Hol. Aug., Stearns' Adjust., ₹ doz $48, dis 20&10 %
Hol. Aug., Ives' Expansive, each $4.50, dis 30&10 %
Hol. Aug., Universal Expansive, each $4.50, dis 20 %
Wood's.....dis 25 %
Gimlet Bits.....$7.50 ₹ gross, dis 50 %
Gimlet Bits, Diamond.....₹ doz $1.25, dis 40 %
Double Cut Gimlet Bits, Shephardson's...dis 40 %
Double Cut Gimlet Bits, Douglass'.....dis 33⅓ %
Double Cut Gimlet Bits, Ives'.....dis 50 %
Morse's Bit Stock Drill.....dis 25 %
L'Hommedieu's Ship Augers.....dis 15 %

AWL HAFTS.

Sewing Brass Ferrule..$3.50 ₹ gross—dis 40&10 %
Patent Sewing, Short....$10 ₹ gross—dis 40&10 %
Patent Sewing, Long.....$1.20 ₹ doz. net
Patent Peg, Plain Top...$10 ₹ gross—dis 40&10 %
Patent Peg, Leather Top..$12 ₹ gross—dis 40&10 %

AWLS, BRAD SETS, &c.

Awls, Sewing, Common.....75c. to $1
Awls, Shouldered Peg.....75c. to $1
Awls, Patent Peg.....50c to $1.50
Awls, Shouldered Brad.₹ gross $2.70—dis 25&10 %
Awls Handled Brad.....$7 ₹ gross—dis 25&10 %
Brad Sets, Aiken's.....₹ doz. $12—dis 45&10 %
Brad Sets, No. 42, $10.50; No. 43, $12.50....dis 70 %
Brad Sets, Stanley's Exc.' No. 1, $9.60.dis 30&10 %
Brad Sets, Stanley's Exc.' No. 2, $4.80.dis 30&10 %
Brad Sets, Stanley's Exc.' No. 3, $7.80.dis 30&10 %

AXES.

Collins & Co.....$7.25; beveled..$7.75
Cohoes Mfg. Co.....$7.25; beveled..$7.75
Lippincott or Mann's.
Single Bit, 4½ to 5½ and under...₹ doz. $7.25 net
Single Bit, 4½ to 6 and over.....₹ doz. $7.75 net
Single Bit, beveled.....50c. doz. advance
Double Bit, 4½ to 5½ and under..₹ doz $12.00 net
Double Bit, 4½ to 6 and over....₹ doz. $13.00 net
Double Bit, beveled.....$1.00 ₹ doz. advance
Second quality Axes.....50 cts. less than above

AXLES.

Sheldon & Co., Iron.....55 % off
" " " steel.....55 % off
AXLE GREASE—Frazer's.....₹ lb. 6c.

BALANCES.

Spring Balances.....dis 25&10 %

BELLS.

Hand, Light Brass.....dis 70 %
Hand, White Metal.....dis 60 %
Hand, Silver Chime.....dis 20&10 %
Hand, Globe (Cone's Patent).....dis 25&10 %
Gong, Abbe's.....dis 2'&10 %
Gong, Yankee.....dis 30&10 %
Gong, Barton's.....dis 30&10 %
Leon Reading.....dis 25&10&10 %
Pub. Brook's.....dis 50&10 %
Crank, Taylor's.....dis 25&10 %
Lever, Sargent's.....dis 55&10 %
Bloomfield.....dis 20 %
Lever, R. & E. M. Co.'s.....dis 45&10&2 %
Call.....dis 25 %
Cow, Common Wrought.....dis 55&10 %
Cow, Western, Sargent's List.....dis 55&10 %
Cow, Kentucky, Sargent's List.....dis 55&10 %
Cow, Moore's or Dodges, Genuine Ky., new list:
Nos. 0 1 1½ 2 3 5 5 6 Hog } dis.60&
$12 $10 $9 $8 $7 $4 $3.50 2.50 $5 } 10 %
Cow, Texas "Star".....dis 40 %

BELLOWS.

Blacksmiths' Common.....dis 50 %
Molders'.....dis 25 %
Hand Bellows.....dis 25 %

BLIND FASTENERS.

Francis.....dis 20 %
Mackrell's.....₹ doz pairs $1.00, dis 10 %
Van Sand's Screw Pattern.....$9 ₹ gross, net
Van Sand's Old Pattern..1¼, $8; 1½, 8.50 ₹ gro. net
Merriman's.....new list, net
Zimmerman's, 10¾ in.....₹ gross $26 00
Zimmerman's, 9 in.....₹ gross 24.00
Zimmerman's, without screws.....$5 00 less

BLIND STAPLES.

Barbed, ½ in. and larger.....₹ lb 11c net
Barbed, ⅜ in.....₹ lb 13c net

BLOCKS.

Penfield Block Co., Rope and Iron Strap'd..dis 40 %

BOLTS.

Cast Iron Barrel Shutter, &c.....dis 55&10 %
Cast Iron Chain (Sargent's list).....dis 60&10 %
Wrought Barrel.....dis 55&10 %
Wrought Square.....dis 55&10 %
Wrt. Shutter, all Iron, Stanley's list...dis 50&10 %
Wrt. Shutter, Brass Knob, Stanley's list dis 50&10 %
Wrought Shutter, Sargent's list.....dis 55&10 %
Wrought Sunk Flush, Sargent's...dis 65&10&10 %
Wrought Sunk Flush, Stanley's.....dis 40&10 %
Wrought B. K. Flush, Stanley's.....dis 50&10 %
Carriage and Tire, Common, new list.....dis 75 %
Carriage and Tire, Philadelphia Pattern. dis 50 %
Carriage Bolts, Clarke's.....dis 80 %
Carriage Bolts, Lancaster Bolt Co..
Excelsior, Low List.....dis 60&10&10 %
Norway.....dis 75 %
R. B. & W. Carriage (old list).....dis 65 %
Tire, American Screw Co.'s, Phila.....dis 75 %
Tire, "Bay State".....dis 65%, new list
Eagle Philadelphia Tire Bolt.....80%
Stove.....dis 60%
Plow.....dis 50&10 %
Machine.....dis 70 %
Bolt Ends and Lag Screws.....dis 70 %

BORAX.

15c ₹ lb net.

BRACES.

Q. S. Backus.....dis 50 %
Barber's.....dis 40&5 %
Spofford's Patent.....dis 50&5 %
Ives' Patent Braces.....dis 50 %
Common Ball (American).....dis 55 %
Amidon's.....dis 50 %

BORING MACHINES—WITHOUT AUGERS.

Sweet & Clark upright, 3,60 angular.....4.40 net
Lawrence " 3.00 " .....3.50 net
Hubbard " 3.00 " .....3.50 net
Phillips, with Augers..... 7.00 7.50.....net

BRACKETS.

Shelf, plain.....dis 50&10 %
Shelf, fancy.....dis 55&10 %

BRIGHT WIRE GOODS.

New list .....dis 70 & 10 %

BULL RINGS.

Union Nut Co.....dis 55 %
Sargent's.....dis 60&10 %
Hunmson, Beckley & Co.'s.....dis 60&10 %

BUTTS.

Wrought Brass.....dis 75 %
Cast Brass, Fast Joint.....dis 20&10 %
Cast Brass, Loose Joint.....dis 10&10 %
Fast Joint, Narrow.....dis 45&10&10 %
Fast Joint, Broad.....dis 45&10 &10 %
Loose Joint.....dis 60&10&10 %
Loose Joint, Japanned.....dis 60&10&10 %
Loose Joint, Jap, with Acorns ...dis 60&10&10 %
Parliament Butts.....dis 60&10&10 %
Mayer's Hinges.....dis 60&10&10 %
Loose Pin, no Acorn.....dis 60&10&10 %
Loose Pin, Acorns.....dis 60&10&10 %
Loose Pin, Acorns, Japanned.....dis 60&10&10 %
Loose Pin, Acorns, Jap'd, Plated Tips.....dis 60&10&10 %

Wrought Iron.

Fast Joint, Narrow.....dis 60&10 %
Fast Joint, Lt. Narrow.....dis 60&10 %
Fast Joint, Broad.....dis 60&10 %
Loose Joint, Broad.....dis 60&10 %
Table Butts, Back Flaps, &c.....dis 60&10 %
Inside Blind, Regular.....dis 60&10 %
Inside Blind, Light.....dis 60&10 %
Loose Pin, Wrt.....dis 60&10 %
Loose Pin, Light.....dis 60&10 %
Spring Hinges—
Geer's Spring and Blank Butts.....dis 25 %
Clarke Hardware Co.'s.....dis 50&10 %
American Spring Hinge Co.'s.....dis 25 %
Gem Spring Hinges.....dis 25 %
Blind Butts, Shepard's, Nos. 50 and 60....dis 70 %
Blind Butts, Shepard's, No. 050.....dis. 70&5 %
Blind Butts, Shepard's, No. 75.....dis 70&10 %
Blind Butts, Lull & Porter.....dis 75 %
Blind Butts, Huffer.....dis 50 %
Blind Butts, Clark's, Nos. 1, 3, 5...dis 70&10 %
Standard Lull & Porter.....dis 75 %

BOW PINS.

Humason, Beckley & Co's.....dis 55&5 %
Sargent & Co.'s.....$19.70 and 21.40, dis 66&10 %
Hotchkiss.....dis 25 %

BUTCHER'S CLEAVERS.

Humason & Beckley Mfg. Co.....dis 25 %
Bradley's.....dis 25 %
Beatty's.....dis 25&5 %

1	2	3	4	5	6	7	8
$16.50	19.00	21.50	24.00	27.00	30.00	33 50	36.50

CAN OPENERS.

American.....₹ gross $7.50, dis 10 %
New Idea.....$15 00 gross
No. 4, French.....₹ doz $2 25, dis 55 %
No. 5, Iron Handle.....₹ gross $7.50, dis 10 %
Sardine Scissors.....₹ doz $7.00, dis 55 %
Sprague, No. 1, $2; No. 2, 2 25; No 3, 2 50.dis 50&10 %
Universal.....₹ doz $3 00, dis 33⅓ %

CAPS, PERCUSSION, ₹ 1,000.

U. M. C., F C. trimmed.....50c } dis 10&10 %
U. M. C., F. L. ground.....70c }
U. M. C., Cen. fire ground.....70c } dis 10&5 %
U. M. C., Double W. Proof.....$1.40 }
G. D. & S. B.....33c, dis 10 %
E. B. 1-10, Eley's.....60c
Musket, in 1-10's.....55c
Hicks Ground Edge in Brass Boxes.....55c

CARTRIDGES.

Rim.....dis 50@10 %
Central Fire, pistol size.....dis 33⅓ %
" " Military.....dis 25 %
B. B. Caps, Round Balls.....1.75
" Swaged Conical.....1 90

NEW LIST ON CARTRIDGES.

Rim-fire, 22, short.....$ 5 long.....$ 6 00
" 32, " .....10 " 15 50
" 38, " .....18 " 18 00
" 41, " .....15 " 17 50
Central Fire—32, $11.00; 38, $13 50; 41, 15.00; 44, $19.

CARDS.

Horse and Curry, new list, July, 1881 ....dis 10 %
Cotton, new list, July, 1881.....dis 10 %
Wool, new list, July, 1881.....dis 10 %

CARPET STRETCHERS.

Cast Steel, Polished.....₹ doz $5 00, dis 30 %
Cast Iron, Steel Points.....₹ doz $2 00, dis 50 %
Bullard's.....dis 25 %

CASTERS.

Bed.....dis 47½&10 %
Plate and Shallow Socket.....dis 47½&10 %
Deep Socket.....dis 25&10 %
Martin's Patent (Phœnix).....dis 25 %

CATTLE LEADERS.

Humason, Beckley & Co.'s.....dis 60&10 %
Sargent's.....dis 60&10 %
P. S. & W.....dis 25&10 %

CHAIN.

German Halter and coil Chain.....dis 50&10 %
Trace, Breast and Fancy.....dis 45&5 %
Oneida Halter Chain (old list).....dis 45&5 %
Galvanized Pump Chain.....₹ lb 8c net
Jack Chain, Iron.....dis 60&10 %
Jack Chain, Brass.....dis 50&10 %

CHALK.

White.....₹ gross 60c net
Red.....₹ gross 85c net
Blue.....₹ gross $1.00 net
White Crayons.....₹ gross 9c net

COTTON LINES.

Cotton Fish Lines.....dis 33⅓ %
Cotton Chalk Lines, 20 feet:

Nos. 11.	13.	15,	17,	20,	"
$3.20,	3.60,	4.00,	4.50,	5.25.	"

CHISELS.

Socket Framing, Crossman.....dis 65&5 %
Socket Framing, P. S. & W.....dis 70&10 %
Socket Framing, Douglass'.....dis 70&10 %
Socket Firmers, Crossman.....dis 65&5 %
Socket Firmers, Ohio Tool Co.....dis 60&10 %
Socket Firmers, Douglass'.....dis 70&10 %
Socket Corner.....dis 70&10 %
Tanged Firmers.....dis 40&45 %
Tanged Firmers, Butcher's.....$5.00@$5.25 to £
I. Merril's Socket and Framing Chisel....65&10 %

CLAMPS.

Iron, Screw, Eagle.....dis 50 %
Iron, Adjustable, Stearns'.....dis 20&10 %
Iron, Cabinet, Sargent's.....dis 65&10 %
Iron, Carriage makers', Carr & Crawley..dis 25 %

CLIPS, AXLE.

Norway or Best.....dis 60&5 %
Superior.....dis 45&5 %
Conestogo.....dis. 60&10
Coal Hods—Griffiths'.....dis 40 %

COCKS, BRASS.

Racking, new list, July 10, 1880.....dis 50&10 %
Globe, new list, July 10, 1880.....dis 50&10 %
Plain Bibbs, new list, July 10, 1880....dis 50&10 %
Ale and Beer, new list, July 10, 1880...dis 50&10 %

COFFEE MILLS.

Parkers'.....dis 45 %
Wilson's.....dis 50 %
Logan & Strobridge.....dis 45 %
Enterprise Mfg. Co.....dis 25 %

COMPASSES, DIVIDERS, &c.

Compasses.....dis 55 %
Calipers.....dis 55 %
Dividers.....dis 55 %
Cook's Pencil.....dis 10 %

COOPERS' TOOLS.

Bradley's.....dis 15@20 %
Barton's.....dis 30 %

CROW BARS.

Cast Steel.....₹ lb 6 c
Iron, Steel Points.....₹ lb 4 c

CURLING IRONS, &c.

⅜, ⅝, ¾ in., $1.80, 2.00, 2.40.....dis 10 %
Curling Tongs.....₹ doz $3.65, dis 10 %
Pinching Irons.....₹ doz $7 50, dis 20 %

CURRY COMBS.

Fitch's new list.....dis 50 %
Hotchkiss, Novelty, new list, July, 1880..dis 25 %
Hotchkiss, Exclr. Supr. Champion.....dis 25 %
Lawrence "Perfect".....dis 25&10 %
Rubber.....₹ doz $10.00, dis 25 %
Sweet & Clarke.....dis 50 %
Lusters.....25 %

CURTAIN PINS.

Silvered Glass.....net
White Enamel.....net

CUTLERY.

Association Table.....net
Naugatuck Cutlery Co.....list net
Excelsior Knife Co.....net
Wilson's Butcher and Shoe Knives.....dis 30 %
Ames' Shoe Knives.....dis 15 %
Wm. Rogers Manf. Co., Plated Cutlery.....Net

DOG COLLARS.

Embossed Gilt.....dis 20 %
Leather.....dis 25 %
Brass.....dis 25 %

DOOR SPRINGS.

Torrey's Rod, regular size, ₹ doz., $3..dis 40&10 %
Gem (Coil):
No. 1, Large Japanned.....₹ doz $4.00 } dis 40 %
No. 2, Medium Japanned..₹ doz 2.75 }
No. 3, Small, Japanned....₹ doz 2.00 }
No. 4, ("Hoo Fly") Screen door size, 1.50 } dis 50 %
No. 5, Screen door size.....2.00 }
No. 6, Medium.....2.75 }
No. 7, Large.....4.00 }
Standard—10 doz $1.25; 9 doz $1 75 ...dis 50&10 %
8 doz 2.5; 6 doz $3.50.....dis 5 & 0 %
Hercules.....dis 5 &10 %

DRAWING KNIVES.

Ohio Tool Co.....dis 60&10 %
Crossman's No. 1.....dis 65&5 %
Nobles Mfg. Co.....dis 15 %
Bradley's.....dis 35 %
Adjustable Handle.....dis 30 %
P. S. & W.....dis 70&10 %
Douglass.....dis 70&10 %

DRILLS AND DRILL STOCKS.

Blacksmiths'.....each, $2.50, dis 10 %
Blacksmiths' Self-Feeding.....each, $7 50, dis 30 %
Breast, P. S. & W.....dis 20&10 %
Breast, Wilson's.....dis 20 %
Breast, Millers Falls.....each, $3.00, dis 25 %
Breast, Bartholomew's.....each, $2.50, dis 25&10 %
Wilson's Drill Stocks.....dis 20&10 %
Automatic Boring Tools.....each, $2.25, dis 20 %

EGG BEATERS.

Dover.....₹ doz. $2.50, dis 2 %
Medallion.....gross, $10.00
Victoria.....gross, $10.00

EMERY AND EMERY PAPER.

Regular numbers.....₹ lb 6c
Flour and F. F.....₹ lb 4c
B. & A. Emery Paper.....dis 30&5 %

ENAMELED AND TINNED WARE.

Kettles.....dis 60 %
Sauce Pans.....dis 40 %
Tinned Sauce Pans.....dis 40 %
Escutcheon Pins—Brass.....dis 50 %

E CUTCHEONS.

Door Lock.....Same discounts as Door Locks
Brass Thread.....dis 25 %
Wood.....dis 25 %

FAUCETS.

Fenn's.....dis 40 %
Fenn's Cork Stops.....dis 33⅓ %
Star.....dis 55&10 %
Frary's Patent Petroleum.....dis 20&10 %
West's Patent Key.....dis 45 %
Anchor Lock.....dis 45 %
Metallic Key, Leather Lined.....dis 60 %
Cork Lined.....dis 70 %
J Sommer's Best Metallic Key.....dis 40 %
J. Sommer's Cork Lined, 1st quality.....dis 50 %

FILES.

E. M. Boynton's.....new list, dis 25 %
Western File Co.....dis 45 %
Butcher's.....$4.50 to £
Moss & Gamble.....$4.50 to £
H. Disston & Sons (new list).....dis 40 %
Heller Bros.' Horse Rasps.....dis 30&10 %
Nicholson.....dis 40&10 %
New American.....dis 40 %
Union File Co.....dis 45 %
Stubs, new list.....$7.50 to £, 25 % off

FLUTING MACHINES.

Knox, 4½-inch Rolls.....$3.50 each } ....dis 35 %
Knox, 6-inch Rolls.....$4.00 each }
Knox, 8-inch.....$6.50
Eagle, 3½-inch Roll.....$2.15, dis 35 %
Eagle, 5½-inch Roll.....2.85, dis 35 %
Crown, 4½-in., $3.50; 6, $4.00; 8, $6.50 each...dis25 %
Crown Jewel.....6-in., $3.40 each.....dis 35 %
American, 5-in., $3; 6-in., $3.40; 7-in., $4.50 each.....dis 35 %
Domestic Fluter.....$1.50 each, net
Geneva Hand Fluter, White Metal, ₹ doz $12.....dis 25 %
Crown Hand Fluter, Nos. 1, $15; 2, $12.50; 3, $10.50; 4, $8.25 ₹ doz.....dis 35 %
Combined Fluter and Sad Iron.₹ doz $15.00.dis 30 %

FORKS.

Lawson & Brenizer.....dis 50&10 %
Remington.....dis 50&10 %
Sheble & Fisher.....dis 50&10 %

FRY PANS.

Burnished list as follows.....dis 60&10&10 %

No	0	1	2	3	4	5	6	7	8
₹ doz..	$3.00	3.75	4.25	4.70	5.35	6.00	7.00	8.00	9.00

GAUGES.

Marking, Stanley's.....dis 50&10 %
Marking, Chapin's.....dis 55&10 %
Wire.....dis 10&10 %
Wire, Disston's.....dis 20 %
Wire, Wheeler, Madden & Co.....dis 10 %

GIMLETS.

Nail and Spike.....dis 40 %
"Eureka" Gimlets.....dis 50 %
"Diamond" Gimlets.....dis 50 %
Double Cut, Shepardson's.....dis 50 %
Double Cut, Hartwell's.....dis 50 %
Double Cut, Ives'.....dis 50 %
Double Cut, Douglass'.....dis 33⅓ %
"Reel".....₹ gro. $12.00, dis 25 %

GLUE POTS.

Tinned and Enameled.....dis 35 %
Family, Howe's "Eureka".....dis 25 %
Family, L. F. & C.'s "Handy".....dis 30 %

GRINDSTONE FIXTURES.

Sargents Patent.....dis 70&10 %
Reading Hardware Co.....dis 25&10 %

GUN WADS.

Eley's B. E. wads, 11 upwards.....$1.75
" " " 9 and 10.....2.00
" " " 7 " 8.....2.25
" P. E. " 11 upwards.....2.90
" " " 9 and 10.....3.65
" " " 7 " 8.....4.45

HAMMERS.

Maydole's.....dis 15 %
Magnetic Tack, Nos. 1, 2, 3, $1.35, 1.50 and 1.75.....dis 25&10 %
Warner & Noble's.....dis 5 %
Kip's or Selsor's.....dis 30 %
Yerkes & Plumb.....dis 15 %

HANDLES.—Door or Thumb Latches.

Nos.....	0	1	2	3	4	
Per doz..	$0.80	1.00	1.18	1.35	1.150	dis 55&10 %

Roggin's Latches.....₹ doz 35c. @ 40c. net
Bronze Iron Drop Latches.....₹ doz $0.90@1 10
Jap'd Store Door Handles—Nuts, $1.35; Plate, $2.00, no Plate, $1.10.....dis 10 %
Barn Door.....₹ doz $1.60, dis 10 %
Wrought Chest.....dis 60&10 %
Surface Chest.....dis 55& 0 %
Flush Chest.....dis 55&10 %
Lifting.....dis 50&10 %
Saw and Plane.....dis 40&10 %
Lippincott Cross-Cut Saw.....22c per pair
Hammer and Hatchet.....dis 20 %
Brad Awl.....₹ gross, $3.00, dis 20&10 %
Chisel, all kinds.....50&10 %
Auger, assorted, ₹ gross.....$4.50
Auger, large, ₹ gross.....5.00
Patent Auger, Ives'.....dis 25 %
Patent Auger, Douglass'.....₹ set $1.25 net
Patent Auger, Swan's.....₹ set 1.00 net

HAMMOCK CHAINS.

White Mountain, per coz.....$36.00
" " Finished in red, per doz..$42.00

HANGERS.

Barn Door, old patterns.....dis 60&10 %
Barn Door, New England.....dis 60&10 %
Climax (Anti-Friction).....dis 50 %
Warner's.....dis 20 %
Richard's.....dis 20 %

HATCHETS.

Shingling,	Nos. 1 2 3.....	₹ doz	$7.25	$8.00	$8.75
Claw,	Nos. 1 2 3.....	₹ doz	7.75	8.50	9.25
Lathing,	Nos. 1 2 3.....	₹ doz	7.50	8.00	8.50

Hammond's, new list.....dis 45 %
Blood's.....dis 35 %
Hunt's.....dis 30 %
Russel's, low list.....dis 40 %
Cohoes Bench Broad Adzes.....40 %

HAY KNIVES.

"Lightning".....₹ doz. $20.00 net 5 %
Wadsworth's.....dis 30 %

HINGES

Plate Hinges } 8,10&12 in.....5½c. ₹ lb.
"Providence" } over 12 in.....4½c. ₹ lb.
Screw Hook } 8, 10, 12 in.....4 c. ₹ lb.
and Strap. } 14 to 36 in.....3 c. ₹ lb.
Crown spring hinges, for screen doors, dis. 60 %; for solid doors, single action, dis. 45 %; for solid doors, double action, dis. 55 %.
Crown Screen Door Latch....₹ gross $12, dis 55 %
Crown Christmas-Tree Holders, 2-inch, ₹ doz. $9; 3-inch, $12.....dis 45 %
Bickford Portable Pump.....each $6, dis 2 %
American Cake Mixer, No. 6...each $3.50, dis 20 %
American Tobacco Cutter.....₹ doz. $15, dis 20 %
A. M. Co. Clothes Wringer, No. 2 rolls, 10x1¾, ₹ doz., $37.50; No. 2¾ rolls, 12x1¾, $48.....dis 20 %
Heavy Welded Hook } 8@12 in. $7.50 ₹ 100 lb. } dis
14 in. & up, $6 ₹ 100 lb. } 20 %

Screw Hook and Eye...	⅝ & 1 in.....	9c.	dis
	½ in.....	9c.	20 %
	⅜ in.....	10c.	
	¼ in.....	12c.	

Wrought Strap & T list, Dec.20, '77, dis 60&10&10 %

HOES.

Planters.....60&5 %
Riveted Shank.....₹ doz. $5.00, dis 50&10 %
Socket.....₹ doz. $5.25, dis 50&10 %
Grub.....dis 50 %
Hick's Pat. Solid C. S. Planters'.....dis 60&10 %
Hick's Pat. Solid C. S. Scovill Pattern..dis 60&5 %
Hubbard, Bakewell & Co.....dis 50&10 %

HORSE NAILS.

Ausable:	Nos.	5	6	7	8	9	10	
Plain, ₹ lb....		30c	27c	25c	24c	23c	22c.	dis 20&10 %
Finish'd ₹ lb		31c	28c	26c	25c	24c	23c.	dis 20&10 %
Clint'n, P'n, " ..			23c	21c	20c	19c	18c	dis 20&10 %
Clint'n, Fin'd " ..			24c	22c	21c	20c	19c	dis 20&10 %
Essex, ₹ lb....		31c	28c	26c	25c	24c	23c.	dis 20 %
Putnam "		27c	24c	22c	21c	20c	19c.	dis 5&10 %
Saranac " ...		28c	23c	21c	20c	19c	18c.	dis 20 %
Globe. "		26c	23c	21c	20c	19c	18c.	dis 10&5 %
N'thw'n "		28c	25c	23c	22c	21c	20c.	dis 10&10 %
Ch'mpl'n Forged ₹ lb..		30c	27c	25c	24c	23c	22c.	dis 25&10 %
A. C., ₹ lb....	28	25	23	22	21	21	.dis 10, 10& 5 %	
C. B. } K. }	28c	25c	23c	22c	21c	21c	dis 10& 5 %	
Bridgewater....	24c	21c	19c	18c	17c	16c.	dis 25& 5 %	
New Haven...	33c	30c	28c	27c	26c	27c.	dis 30&10 %	
Capewell..	31c	26c	26c	25c	24c	23c.	dis 20&10 %	

HORSE SHOES.

Burden.....₹ keg
R. I. Horse Shoe Co., Perkins' improved, Light, Medium and Heavy.₹ keg $3.87½
Mule Shoes.....₹ keg $4.87½
Walker's—Forged: (Light, Medium and Heavy.)
Horse.....₹ keg $3.87½
Mule.....₹ keg $4.87½
Keystone Solid Calk Steel Horse.....$3.87½ 5 %
" " " Mule.....$4.87½ 5 %

HORSE POKES.

Excelsior.....$8 ₹ doz.
Akron.....$3 ₹ doz.
Ox Shoes—Mt. Carmel Ox Shoes.....10 cts. ₹ lb.

ICE CREAM FREEZERS.

Peerless—3 quart, $4.50; 4 quart, $5.50; 6 quart, $7; 8 quart, $9; 10 quart, $12. The Gooch Patent "Giant"—14 quart, $20; 18 quart, $25; 21 quart, $30; 25 quart, $35; 32 quart, $40; 42 quart, $45. Discount 50%.
American—2 quart, $2.75; 3 quart, $3.25; 4 quart, $3.75; 6 quart, $5 each.....dis 45 %
Crown, single action, 2 quart, $3.75; 3 quart, $4.50; 4 quart, $5.50; 6 quart, $7; 8 quart, $9; 10 quart, $11; 14 quart, $14; dis 45 %
Crown, double action, with crank, 8 quart, $10.50; 10 quart, $13; 14 quart, $16.50; 18 quart, $21; 24 quart $25. With fly wheel, 8 quart, $13; 10 quart, $16; 14 quart, $20; 18 quart, $25; 24 quart, $30; 32 quart, $37.50.....dis 45 %
Star, double action, 2 quart, $3.75; 3 quart, $4.50; 4 quart, $5.50; 6 quart $7; 8 quart, $9; 10 quart, $11; 14 quart, $14.....dis 45 %
Gem, double action, 2 quart, $3.75; 3 quart $4.50; 4 quart, $5.50; 6 quart, $7; 8 quart, $9; 10 quart, $11; 14 quart, $14...dis 55 %
Crown Ice Chipper.....₹ doz. $7.50, dis 35 %

KNOBS.

Carriage (Jap'd 80c ₹ gross).....dis 60&10
Base—Common.....dis 30&10 %
Hemacite Door Knobs.....new list, dis 35&5 %
Door Mineral... } Same discounts as Door Locks
Door Por. Jap'd.. }
Door Por. Plated }
Door Por..... }
Furniture Plain.....75c gross inch, dis 10 %
Furniture, Wood Screws.....dis 20 %
Picture.....dis 50&10
Hemacite, Picture.....dis 35 %
Shutter, Porcelain.....dis 50&10

LADLES.

Melting & Skim'ng, Monroe's Pat.₹ doz $4 dis 40 %
Melting, C & C.....dis 30&10 %

LAWN MOWERS.

Buckeye, Easy and Excelsior, new list...dis 30 %
Lines—Linen Fish.....dis 25&10 %
Wire Clothes, Galvanized, 100 feet.....₹ doz. $3.00

LOCKS AND LATCHES.

Cabinet, Eagle..... } Changes made in list price
Cabinet, Gaylord.... } of some numbers Jan. 1.
Cabinet, Bridgeport. } 1881, dis 25&2 %
Cabinet, P. & F. Corbin.....dis 40 %
Trunk, new list, Jan 1, 1881.....dis 15&2 %
Yale Lock Co., Flat Key..... .....dis 40 %
Plate.....dis 33⅓&2 %

DOOR LOCKS, ETC.

Branford..... }
Norwalk..... }
Norwich..... } List prices as revised
P. & F. Corbin..... } Dec 6th, 60&2 %
Russell & Erwin..... } for cash.
Mallory, Wheeler & Co }

Padlocks—Russell & Erwin..... }
Mallory, Wheeler & Co ..... } dis 45 %
Norwich Lock Manf. Co..... } and 2% for cash
Wm. Wilcox & Co..... }
Wm. Wilcox & Co.'s Plate Locks.....dis 33⅓
Yale Lock Manf. Co.'s "Standard"..... dis 40 %
Romer's.....dis 25@40 %
Conestoga .....dis 75 %
Scandinavian, "Norwich".....dis 50&10 %

MALLETS.

Penfield Block Co., Apple, Hickory and Lignumvitæ.....dis 30 %

MEAT CUTTERS.

Dixon's (P. S. & W.) Nos. 1 2 3 4.
₩ doz $14 $17 $19 $30–dis 35 %
Perry's, Nos. 1 2 3 4 4 gr'd 5 gr'd
Each. ....$3 4 5 11 13 36 dis
Woodruff's (P. S. & W.).....Nos. 100 150
₩ doz. $15 18–dis 35 %
Hales'.....Nos. 11 12 13
₩ doz..$27 35 45–dis 50&10&2 %
Kieser's No. 55.....$40 ₩ doz. dis 40 %
Kieser's Gem..... .....$25 ₩ doz. dis 40 %
Kieser's No. 82 .....$40 ₩ doz. dis 40 %
Kieser's Monarch.....$45 ₩ doz. dis 40 %
Beef Shaver, (Enterprise Manf. Co.).....dis 25 %

MOLASSES GATES.

Stebbins Patterns.....dis 70&10 %
Stebbins Genuine.....dis 67½&10 %
Stebbins Tinned Ends..... ..dis 40&10 %
Chase's Hard Metal.....dis 50&10 %
Self-Measuring, (Enterprise).....dis 20 %
Lincoln's Pattern.....dis 60&10 %
Weed's.....dis 15 %
Boss Nos. 1 2 3 4
$7 8 9 10..₩ doz
Boss, Japanned Finish.....dis 60&10&10 %
Boss, Bronze Finish.....dis 50&10&10 %

NUTS AND WASHERS.

Square Nuts.....8 c off list
Hexagon Nuts.....8½c off list
Washers.....7½c off list

OILERS.

Zinc and Tin..... .....dis 60&10 %
Brass and Copper..... .....dis 50 %
Malleable (Hammer's)..... ₩ doz $5, dis 10 %
PINKING IRONS.....₩ doz 75c, net

PLAITING MACHINES.

Astor Plaiting Machine..... each $15, dis 20 %
Crown Plaiting Machines.....dis 25 %
6 in., $6; 10 in. $8 each.

PLANES AND PLANE IRONS.

Bench, First Quality.....dis 20 %
Bench, Second Quality.....dis 25 %
Molding.....dis 15 %
Bailey's (Stanley R. & L. Co.) new list, Jan. 1879..... .....dis 20&10 %
The Stanley (S. R. & L. Co.) new list, Jan. 1879..... .....dis 20&10 %
Bailey's..... .....dis 20&10 %
Plane Irons, Butcher's.....$5.50 to £
Plane Irons, Auburn Tool Co.....dis 20 %
Plane Iron, Ohio Tool Co.....dis 20 %
Plane Irons, Sandusky Tool Co.....dis 20 %

PLIERS AND NIPPERS.

Button's Patent.....dis 33⅓ %
Hall's Pat. Compound Lever Cutting Nippers, No. 2, 5 in. $13.50; No. 4, 7 in., $21 ₩ doz.dis 25 %
Gas Pliers.....dis 50 %

PLUMBS AND LEVELS.

Disston's.....dis 40 %
Stanley R. & L. Co.'s Pat. Adjustable..dis 65&10 %
Stanley R. & L. Co.'s Non-Adjustabl...dis 65&10 %
Chapin's Patent Adjustable.....dis 65&10 %
Chapin's Non-Adjustable.....dis 65&10 %
Standard Rule Co.'s New Adjustable...dis 65&10 %
Standard Rule Co.'s Non-Adjustable...dis 65&10 %
Pocket Levels.....dis 65&10 %

RAIL.

Sliding Door, Wrought Brass...₩ lb. 43c. dis 30 %
Sliding Door, Bronzed Wrt. Iron ₩ ft. 12c. dis 35 %
Sliding Door, Iron, Painted..₩ ft. 4c. dis 10&10 %
Barn Door....inch.....½ ¾ ⅞
Per 100 feet..$2.60 3.60 5.60–dis 10 %
B. D. for N. E. Hangers— Small Med. Large.
Per 100 feet.....$2.10 2.70 .30—net

RIVETS.

Iron and Tinned, new list, Dec. 10, 1881...dis 40 %
Is bulk, new list, Dec. 10, 1881..... .....dis 40 %
Copper Rivets and Burrs..... ....dis 45 %
Nos.. 7 8 9 10 11 12 13 14 15
₩ lb..49c. 50c. 52c. 54c. 56c. 58c. 60c. 65c. 70c.
RIVET SETS.....dis 40 %

RODS.

Stair, Brass.....dis 25 %
Stair, Black Walnut .....60c. ₩ doz.—nett

RULES.

Boxwood. Ivory.
Chapin's..... } } dis 40&10 %
Standard..... } dis 70&10 %
Stanley..... . ... }
Stevens & Co.....70 & 10%. Ivory.....50%
Stevens & Co. Miscellaneous.....50 & 10%

SAD IRONS.

Self-Heating, Charcoal.....₩ doz. $9.00 net
Mrs. Pott's Irons..... dis 35 %
Enterprise Star Irons, new list, July 20, '82.dis 35 %
Comb'd Fluter and Sad Iron. ₩ doz. $15.00, dis 15 %
Common Sad Irons.....2¾c. ₩ lb.

SAND PAPER.

Baeder & Adamson's Flint, 00@1½ $4.50₩ r'm. }
Baeder & Adamson's Flint, 2, 2½ &3, 5.00₩ r'm. }
Beader & Adamson's Flint, Assort'd 4.75 ₩r'm. } dis 35 %
Beader & Adamson's Star..... 3.75₩r'm. }
Beader & Adamson's Emery ₩ r'm $6.50@11.50 }
J. Bartle's Sand, Flint and Emery Paper...30&5 %

SASH CORD.

Common.....₩ lb. 14c. net
Patent..... .....₩ lb. 17c.@18c. net
Silver Braided Lake Hemp.....₩ lb. 50c. dis 10 %
Silver Braid. Lake White Cotton.₩ lb. 50c. dis 10 %
Silver Braided Lake Drab Cotton.₩ lb. 55c. dis 10 %
Silver Lake Cable Laid, Bengall unbleached Hemp, 17 cts.....dis 10 %
Russian Hemp, 19 cts.....dis 10 %
Italian Hemp, 34 cts .....dis 10 %

SASH WEIGHTS.

Solid Eyes, in 500-lb. lots and over. ₩ lb. 1¼c. net

SAUSAGE STUFFERS OR FILLERS.

Miles.....₩ doz. $20, dis 25&5 %
Perry.....₩ doz., No. 15; No. 0, $21,... dis 35 %
Enterprise Mfg Co.....dis 25 %
Monarch.....dis 40 %

SAWS.

Boynton's Lightning Cross Cuts, new list.dis 40 %
Boynton's Circular and Mill.....dis 40 %
Boynton's Ice.....dis 25 %
Boynton's Lightning Hand, Panel and Rip.dis 25 %
Disston's Circular.....dis 40 %
Disston's Mill..... .....dis 40 %
Disston's Cross Cut..... .....dis 40 %
Disston's Hand, Panel, Rip, &c.....dis 20 %
Hubbard, Bakewell & Co. Cir. Saws....dis 40&5 %
Hubbard, Bakewell & Co Cross Cut.....30c. ft.
Hubbard, Bakewell & Co., One-Man's, X Cut, dis 40&5 %
Hubbard, Bakewell & Co., Mill Saws..dis 40&5 %
Peace Circular and Mill.....dis 40 %
Peace Hand, Panel and Rip.....dis 25 %
Peace Cross Cuts.....dis 35 %
Peace Band Saws, all widths .....dis 10 %
Webster Cross Cut, with Handles.dis 25&10&10 %
Griffin's Hack Saws and Blades .....30 %

SAW FRAMES.

White.....₩ doz $1.05, dis 10 %
Saw Rods.....$1.10 list, dis 10&10 %

SAW SETS.

Stillman's Genuine.₩ doz. $3.50 and $5.50, dis 10 %
Stillman's Imitation.....₩ doz. $3.25, dis 30&10 %
Common Lever.....₩ doz $2.00, dis 30&10 %
Leach's.....No. 0, $8.00; No. 1 $15; dis 15 %
Hammer, Hotchkiss.....$5.50, dis 10 %
Aiken's Genuine.....$13.00, dis 50&10 %
Aiken's Imitation.....$7.00, dis 50 %
Disston's.....dis 20 %
Morrill's.....No. 1, $15; No. 5, $52, dis 35&10 %

SCALES.

Hatch, Counter, No. 171..₩ doz. $42, dis 37½&10 %
Hatch, Tea, No. 161.....₩ doz. $15.00, dis 37½&10 %
Tron Platform, Keystone..... .....$6, dis 45 %
Chicago Scale Co.....Special dis
Fairbanks'.....dis 20 %
Forsyth Scale Co.....dis 45 %
Howe's.....dis 20&10 %
Chatillon's Grocers'..... ...dis 40 %
Chatillon's Eureka.....dis 25 %
Family Universal .....dis 50 %
Family Favorite.....dis 30 %
Family Turnbull's.....dis 30 %
Scale Beams, List of Jan. 12, 1882.....dis 50 %

SCRAPERS.

Adjust. Box Scraper(S.R.&L.Co.)$6.50,dis 20&10 %
Box, 1 Handle.....₩ doz. $4, dis 10 %
Box, 2 Handle.....₩ doz. $6, dis 10 %
Foot .....dis 45&10 %
Ship, common .....₩ doz. $3, net
Wilson Mfg Co .....dis 10 %

SCREW DRIVERS.

Douglas Mfg Co.....dis 20&10 %
Disston's.....dis 40 %
Cowles Mfg Co.....dis 50&10&10 %
Stanley Rule & Level Co.'s Var. Hdls.dis 50&10 %
Stanley Rule & Level Co.'s Bl'k Hdls.dis 40&10 %
Ratchet.....dis 33⅓ %
Clark's Patent.....dis 25 %
Shepardson.....25 %

SCREWS.

Flat H'd Iron, list Dec.27, '82.....dis 70 %
Round Head Iron.....dis 50 %
Flat Head Brass.. .....dis 60 %
Round Head Brass..... .....dis 15 %
Flat Head Blued add 2½ % to net of invoice.
Brass and Silver Capped.....dis 40 %
Japanned, list of Plain Screws..... ...dis 20 %
Coach, Patent Gimlet Point..... ..60&10 %
Coach, Common or Lag.....60&10&10 %
Bed.....dis 10 %
Machine, Flat Head, Iron.....dis 55 %
Machine, Round Head, Iron .....dis 50 %
Bench, Iron.....dis 50&10 %
Bench, Wood, Beech..... ₩ doz. $3 00, dis 10 %
Bench, Wood, Hickory.....dis 20&10 %
Hand, Wood.....dis 20&10 %
Hand Rail, Sargent's.....dis 60&10 %
Hand Rail, Humason, Beckley & Co.'s.dis 40&10 %
Hand Rail, Am. Screw Co., list Jan 1, '81....dis 70 %
Jack (Wilson's).....dis 25 %

SCREEN FRAMES AND FIXTURES.

Standard Window Screens No. 1, ₩ doz. $4; 2, $5
" Door " No. 5, $15; dis 40&10 %
" Window Corner Irons, No. 3, doz. s'ts, $2
" Door " " No. 6, " " $3
dis 40&10 %
" Door Latches, ₩ dozen, $3.60; dis 50 %
Porter's Patent Window and Door Screen Frames:

PER DOZ. SETS.

	In White.	Im. Bl'k Walnut.	
No. 20	$2.75	$3.25	dis. 33⅓ %
No. 21	3.25	4.00	
No. 22	5.50	6.75	
No. 23	6.00	7.50	
No. 30	9.00	11.00	

Porter's Corners—
No. 0. Corners and Sticks complete for a three-foot window, ₩ doz. sets.....$4
No. 1. Set for Window, ₩ doz. sets, Bronzed, $2.40; Nickel, $5.62
No. 1½. " " ₩ doz. sets, Bronzed, $3.25; Nickel, $7.50
No. 4. " " ₩ doz. sets, Bronzed, $4.00; Nickel, $8.00
No. ⅓. " " or Door. ₩ doz. sets, Bronzed, $1.20; Nickel, $3.00
No. 4½. " " or Door, ₩ doz. sets, Bronzed, $2.00; Nickel, $4.00
No. 2½. " Door, ₩ doz. sets, Bronzed, $6.75; Nickel, $15.00
No. 3. " " ₩ doz. sets, Bronzed, $12.00; Nickel, $24.00
} dis. 33⅓ %

SHEARS AND SCISSORS.

American (Cast) Iron.....dis 70&10 %
Pruning.....see Pruning Hooks and Shears
Barnard's Lamp Trimmers.....₩ doz. $4.00
Tinners'.....dis 15 %
Conn. Shears.....dis 80 %
Norfolk Shear Co..... .....dis 75 %
Jersey Shears.....80 %
J. Wiss & Son, Nickle, 50&5%; Japanned, 60&5 %

SHEAVES.

Sliding Door, M. W. & Co., list .....dis 45&2 %
Sliding Door, R. & E. list.....dis 60&10&2 %
Sliding Door, Patent Roller.....dis 60&10&2 %
Sliding Door, Pt. Roller, Hatfield's.dis 60&10&2 %
Sliding Door, Russell's Anti-Frict'n.dis 60&10&2 %
Also see Hangers.

SHOVELS AND SPADES.

Ames, New List, July 1, 1881 .....dis 15 %
Griffiths.....dis 50&5 %
Remington's (Lowman's Patent).....dis 30 %
Rowland's.....dis 60 %
Kimball's.....35 %
Lippincott, new list.....30 %
Hussy, Bins & Co.....15 %

SPOKE TRIMMERS.

Bonney's.....₩ doz. $10, dis 40&5 %
Stearns'.....₩ doz. $9, dis 20&10 %
Ives'... .No. 1, $15; No. 2, $12 ₩ doz., dis 55&10 %
Douglass'.....₩ doz., $9, dis 15 %

SILVER-PLATED WARE.

Wm. Rogers Manf. Co.....dis 50, 5&5 %
Holmes, Booth & Hayden.....dis 40&10&5 %
Brown Bros.....dis 40&10&5 %
Wallace's Steel Silver Plated.....33⅓&10 %
Rogers Bros 1847 ....50 %
C. Rogers & Bro.....40, 10&5 %

SILVER PLATED HOLLOW WARE.

Wm. Rogers Manf. Co.....dis 40, 15&5 %
Meriden Britannia Co.....33⅓ %

SPOONS.

Britannia. .....dis 60&10 %
Tinned, Iron, Table and Tea.....65 %
Tinned Iron Basting.....65 %
German Silver..... .....dis 40 %

STONE.

Hindostan No. 1, 5c.; Axe, 8c.....net
Sand Stone.....₩ lb. 6c., dis 33⅓&10 %
Washita Stone.....No. 1, ₩ lb., 16c. net
Washita Stone, Slips.....No. 1, ₩ lb. 45c. net.
Arkansas ....$1.50 ₩ lb. net

SQUARES.

Steel.....dis 50 %; full cases, dis 50&10 % }
Iron.....dis 50 %; full cases, dis 50&10 % } 2% cash.
Nickel Plated.....add $2.50@4 ₩ doz., net. }
Try Square and T Bevels.....dis 50&10 %
Disston's Try Square and T Bevels.....dis 40 %

VISES.

Solid Box—Wilson's. ....dis 50 %
" Trenton..... ....dis 45 %
" Iron City Tool Works.....dis 50 %
Bench—Wilson's..... ....dis 45 %
" Trenton..... .. ..dis 25 %
" Parker's..... .....dis 20 %
" Prentiss..... ....dis 25 %
" Bonney's..... .....dis 35 %
Well Wheels..... dis 60&10&10 %

WIRE.

Brass and Copper, list of Jan. 17, 1884.....15%
Bright and Annealed.....Nos. 0@18, dis 50 &10%
Bright and Annealed.....Nos. 19@26, dis 60 &10%
Bright and Annealed.....Nos. 27@36, dis 70%
Coppered. .....Nos. 0@18, dis 50 %
Galvanized, Nos. 0 to 18 .....market list dis 40 %
Tinned, Nos 0 to 18.. . ..... dis 60 %
Tinned Broom Wire, Nos. 18 to 25.....dis 60 %
Annealed Fence, Nos. 8&9.....dis 55 %
Annealed Grape, Nos. 10 to 14.....dis 50@10 %
Fence Staples, Galvanized.....₩ lb 7@7½ c
Japanned Barb Fence.....₩ lb 6 c
Galvanized Barbed Fence..... ... .₩ lb 6½c
Buck Thorn Galvanized.....6½c
Picture Wire..... .....dis 40 %
Clothes Line Wire, Galvanized .....$3.00 ₩ doz
Wire Cloth, green, drab and black..₩ sq ft 2 c net

WRENCHES.

American Adjustable.....dis 45 %
Baxter's Adjustable "S." list Jan., 1880..dis 20&5 %
Baxter's Diagonal..... .....dis 20&5 %
Coes' Genuine..... .....dis 60 %
Coes' "Mechanics".....dis 60&10 %
Coes' Pattern, Malleable... ....dis 75 %
Coes' Pattern, Wrought..... .....dis 60@10 %
Girard Standard.....dis 50&10 %
Girard Agl.....dis 60&10 %
Always Ready..... .....$9.00—25 %

WRINGERS. Per doz.

Universal, XX, No. 2½..... .. 36.00
Universal, XX, No. 2..... 42 00
Universal, XX, No. 1½..... 51.00
Universal, XX, No 1..... 66.00
Universal, XX, No. 8.. .....each 10.75
Universal, XX, No. 12 .....each 20 25
Universal, XX, No 18 .....each 22 75
Universal, XX, No. 22..... .....each 30.25
Peerless, no Cogs, No. 1 ..... 42.00
Peerless, with Cogs, No. 2½..... 45.00
Peerless, with Cogs, No. 2..... 48.00

THERMOMETERS.

Tin Case..... ..... dis 75&10 %
Storm Glasses.....$3.25 ₩ doz.

TOE CALKS.

Winsted... .....₩ lb 9c. dis 5 %

TRAPS.

Game, Newhouse..... .....dis 35 %
Game, Oneida Pattern..... .....dis 60&10 %
Game, Blake's Patent..... .....dis 40&10 %
Mouse, Wood, Choker..... ... ..₩ doz holes, 16c
Mouse, Round Wire.... .....₩ doz $1.50, dis 10 %
Mouse Cage, Wire..... .....₩ doz $2.50, dis 10 %
Mouse, Catch-em-alive.....₩ doz $2.50, dis 10 %
Cyclon Mouse.....₩ doz 75 cts.
Ideal Mouse. ....₩ doz $1.00
Rat, "Decoy".....₩ doz $10.00, dis 10 %
Delusion Mouse, per doz.....$1.50

TACKS, BRADS, &C.
New List, Sept. 1, 1882.

Tinned Swedes Tacks..... .....dis 30 %
Tinned American Tacks.....dis 30 %
Swedes Tacks, all kinds..... .....dis 30 %
American Cut Tacks .....dis 30 %
Copper Tacks and Nails .....dis 30 %
Hungarian Nails.....dis 35 %
Gimp and Lace Tacks.....dis 30 %
Gimp and Lace Tacks, Tinned .. ..dis 30 %
Finishing Nails. .....dis 25 %
Trunk and Clout Nails. .....dis 25 %
Common and Patent Brads.....dis 20 %
Basket Nails.....dis 20 %
Brush Tacks.....dis 20 %
Leathered Carpet Tacks.....dis 20 %
Cigar Box Nails..... .....dis 20 %
Chair Nails.....dis 20 %
Double-pointed Tacks.....dis 40& 5%
} Extra 10 % on all for cash.

TAP BORERS.

Common and Ring.....dis 20 %
Ives' Tap Borers... .....dis 15&10 %
Enterprise Mfg. Co..... .....dis 25 %

TOBACCO CUTTERS.

Enterprise Mfg. Co. (Champion).....dis 25 %
Wood Bottom.....₩ doz $12.00, dis 40&5 %
All Iron..... .....₩ doz $9.50, dis 40&5 %
Wilson's.....dis 35 %

TROWELS.

Lothrops' Brick and Plastering.....dis 25 %
Reed's Brick and Plastering..... dis 15 %
Disston's Brick and Plastering.....dis 20 %
Clement & Maynard's.....dis 20%
Worrall's Brick .....dis 20 %
Brades & Walby's.....dis 20 %
Garden.... .....dis 55 %

TRUCKS (WAREHOUSE, &C).

Handy Truck. .....$2 50 net
Penfield Block Co.' list, 1882.....dis 35 %
Peerless, with Cogs, No. 3..... 54.00
Peerless, with Cogs, No. 4..... ..... 66.00
Eureka. No. 2... . . .. ₩ doz 42.00

MISCELLANEOUS.

"Diamond" Vegetable Grater....$5.00 ₩ doz., 10%
Rotary Knife Potato Parer.....$18.00 ₩ doz., net
Metallic Shingles ....$5.50 and $6.50 per square.
Hopper Cherry Seeders..... $5.00 ₩ doz net

PAINTS, OILS, &c.

PAINTS.

Black Lamp, coach painters.....₩ lb 20c
Black Lamp, ordinary..... .....₩ lb 6c
Black Ivory Drop, fair.....12@15c
Black Ivory Drop, best..... ... ...23c
Black Paint, in oil..... kegs, 6c; asst'd cans, 9c
Blue Prussian, fair to best..... .....40@55c
Blue Prussian, fair to best, in oil.....45@55c
Blue Chinese, dry.....70c
Blue Ultramarine.....15@25c
Brown, Spanish.....1c
Brown, Van Dyke. .....5@15c
Green, chrome.....8@15c
Green, chrome, in oil.....9@12@15c
Green, Paris ....good, 20c; best, 25c
Green, Paris, in oil. .....good, 20c; best, 25c
Iron Paint, bright red.....₩ lb 2¼c
Iron Paint, brown.....₩ lb 1½c
Iron Paint, purple.....₩ lb 3c
Iron Paint, ground in oil, bright red....₩ lb 5½c
Iron Paint, ground in oil, red.....₩ lb 5c
Iron Paint, ground in oil, brown.....₩ lb 4½c
Iron Paint, ground in oil, purple.....₩ lb 6c
Linseed Oil, raw 59c
Single Boiled.... .....61c
Double " 63c
Mineral Paints..... ....3@4c
Orange Mineral 10c
Red Lead, American..... .....6¼@7c
Red Venetian, (Eng.) dry.....$1.50 to $1.75
Red Venetian, in oil.....asst'd cans, 9c; kegs, 6c
Red Indian, dry .....8@12c
Rose Pink.....10@13c
Sienna, American, raw.....4c
Sienna, burnt.....4½c
Sienna, burnt, in oil.....8@15c
Sienna, raw .....8@15c
Umber, burnt.....4@8c
Umber, burnt, in oil. .....8@15c
Umber, raw.....3½@7½c
Umber, raw, in oil.....8@15c
Vermilion, Chinese..... . ...90c
Vermilion, English .....50@55c
Vermilion, American, common.....15c
White Lead, American, pure dry..... 6@6½c
White Lead, American, pure in oil ..... 6@6½c
White, Paris, English, prime.....in bbls. 1½@2c
Yellow Ochre, French.....$1 75
Yellow Ochre, F'ch, in oil, asst'd cns, 9c; kegs, 6c
Yellow Ochre, American.....in bbls., 1½@1½c
Yellow Chrome.....8@18c

FISHERMEN!

Twine AND Netting

MANUFACTURED BY THE

BALTIMORE TWINE AND NET CO.

W. J. HOOPER & SON,

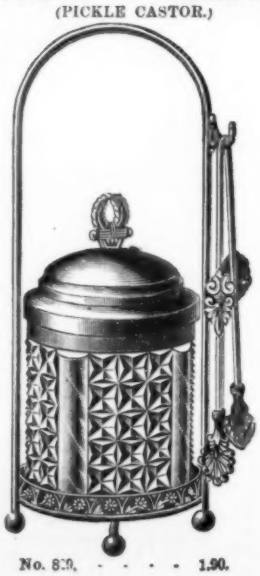
No. 6 S. Calvert St., BALTIMORE, MD.

☞ Send for price list, naming county and State. Please mention this paper.

THE WM. ROGERS' MFG. CO.

Silver-Plated * Table * Ware.

(PICKLE CASTOR.)



No. 829. - - - - 1.90.

We manufacture a complete line of **Silver-Plated Table Ware** of all descriptions, and should be pleased to send our Price-List or Catalogue to any reliable dealer.

☞ We guarantee every piece of our Ware to be just as represented.

Our guarantee card accompanies each box of goods.

Our prices are as low as any FIRST-CLASS GOODS, and our goods are equal to any made in the country.

TRADE-MARKS: WM. ROGERS MFG. CO. — AND — 1865 Wm. Rogers Mfg. Co.

P. O. ADDRESS, DRAWER 39, HARTFORD, CONN.

THE FOURTH ANNUAL INDUSTRIAL FAIR

OF THE

New England Manufacturers' and Mechanics' Institute

WILL OPEN AT 3 O'CLCOK,

WEDNESDAY AFTERNOON, SEPTEMBER 3, 1884,

AND WILL CLOSE AT 10 O'CLOCK,

SATURDAY EVENING, NOVEMBER 1, 1884.

This Exposition will present in valuable and interesting detail the progress of Mechanism, Science and Art; the various processes of Manufacture in full operation, demonstrating the value of Yankee skill and ingenuity; the Agricultural and Mineral wealth of the South and West; the remarkable resources of Mexico; the handiwork of women, and the achievements of master mechanics and workmen.

Applications for space in which to exhibit will be received until JULY 1, and, if accepted by the Committee, will be classed and grouped in proper departments, and space assigned in rotation, in the order in which applications are received. Blanks, with full instructions, furnished by

JOHN F. WOOD, Treasurer, 38 Hawley Street, Boston,

AND AT THE INSTITUTE FAIR BUILDING, END OF HUNTINGTON AVENUE.

The Pennsylvania Lawn Mower.

PRICE-LIST.

10-inch	$13.00
12 "	15.00
14 "	17.00
16 "	19.00
18 "	21.00
15 "	20.00
17 "	22.00
19 "	25.00

Discount to Trade.

LLOYD & SUPPLEE HARDWARE CO., Phila.
E. WHITMAN, SONS & CO., Baltimore.

THE Pennsylvania Lawn Mower.

We defy any one to Produce its Equal.

We have now in our possession a 16-inch Pennsylvania Mower, which was sold to an institute in this State, and was used nearly every working day constantly from the day it was purchased until we got it in our possession. This Mower cut five hundred acres of grass, was sharpened but once during use, and although it has not been sharpened since it came from the ground, nevertheless will cut the finest paper. We now have it in our store on exhibition, and we only secured it by giving a new machine, the parties not wanting to part with it.

The Quaker City Lawn Mower

This is by no means an inferior Mower because at less list price. The saving in manufacture being because it is a centre cut instead of a rear cut Mower. Particularly adapted for the Southern Trade, and at the price we now offer them parties with the smallest lawns cannot well afford to permit their grass to grow wild, or be mined by use of grass hook, sickle or scythe.

The Quaker City Lawn Mower.

REDUCED PRICE.

10 inch	$11.00
12 "	13.00
14 "	15.00
16 "	17.00

Discount to Trade.

LLOYD & SUPPLEE HARDWARE CO., Phila.
E. WHITMAN, SONS & CO., Baltimore.

LLOYD & SUPPLEE HARDWARE CO.

PHILADELPHIA.

E. WHITMAN, SONS & CO., Baltimore.

S. W. RITTER, Millwright,

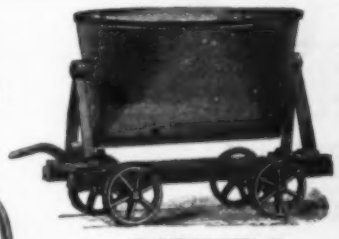
—BUILDER OF—

Flour and Saw Mills, Drug and Chemical Works, Portable Mills, Smut Machines, Mill Stones, Bolting Cloths, Brushes, Guano Fertilizer Mills, and General Mill Supplies,

261 S. Caroline Street, BALTIMORE, MD.

PORTABLE FORGES Empire Portable Forge Co. Cohoes, N. Y. Send for Catalogue.

Illustrated Circulars, giving full Information, sent free on Application



STEUBNER & WOODS,

168 and 170 East Third St.

HUNTER'S POINT,

Long Island City, N. Y.

MANUFACTURERS OF

STEEL AND IRON

COAL TUBS

Side and Bottom Dumping Cars, Coal and Coke Barrows,

HOISTING BLOCKS, ETC.

Amberg's "PEERLESS" Cabinet Letter File

The small cut shows one of the Files or Drawers of a Cabinet. The index in each File has 25 divisions, giving as many spaces or compartments for separating the papers, thereby assuring quick access to any letter when wanted.

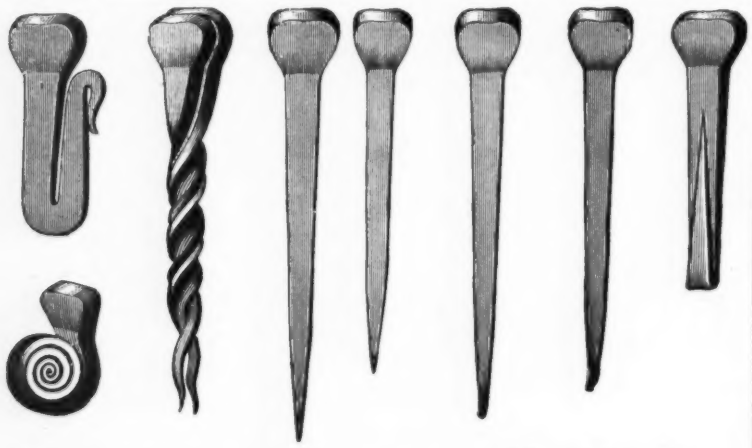
OVER 6,000 IN USE.

These Cabinet Letter Files are made in many sizes, ranging from the smallest of six Files to those of one hundred or more. *As lately improved*, they combine all the desirable points wanted in a complete Letter File; are elegantly and substantially made, the wood-work being of the best seasoned Black Walnut, veneered, with fittings of brass and steel, nickel-plated. They can be arranged for any class of correspondence, and adapted to any requirement.

Illustrated Catalogue on application to

CAMERON, AMBERG, & CO., Sole Manufacturers,

C9 Duane Street, New York. 71 & 73 Lake Street, Chicago. 27 Little Britain, London.



Saranac Horse Nail Co.

PLATTSBURGH, N. Y.

A. WILLIAMS, Prest. and Treas. S. F. VILAS, Vice-Prest. W. S. GUIBORD, Sec'y.

☞ The cuts illustrating this advertisement are of Nails twisted and bent when cold.

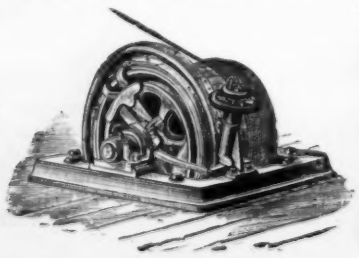
—AGENTS:—

ELY & WILLIAMS, - - PHILADELPHIA AND NEW YORK.
S. H. & E. Y. MOORE, - - - - - - - CHICAGO.
SLIGO IRON STORE CO., - - - - - - ST. LOUIS.
S. G. B. COOK & CO., - - - - - - BALTIMORE.

——CORRESPONDENCE SOLICITED.——

Established 1859. **CHESAPEAKE BRASS WORKS.**

L. P. CLARK & SONS, 34 N. Holliday St., BALTIMORE.



Charles Webster, *Pres.* S. M. Burnham, *Sec'y.*
J. S. Lane, *Supt.* W. T. Allen, *Treas.*

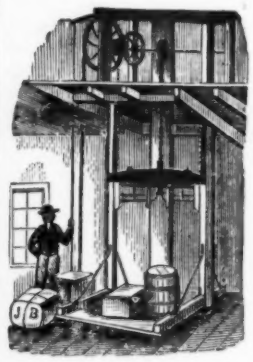
WEBSTER, CAMP & LANE MACHINE CO.

No. 140 Main St., Akron, O.

BAND FRICTION HOIST

For Mines and Blast Furnaces.

The SAFEST, SIMPLEST, STRONGEST and BEST in the Market. Engines, Boilers, Pumps, Skips, and everything pertaining to a first-class plant of Hoisting Machinery. ☞ Correspondence solicited.



Bates' Hand Elevators.

Patented April 18, 1871. Reissued July 25, 1876.

OVER 6,000 IN USE.

Adapted for Warehouses, Stores, Factories, Hotels, Public Institutions, and every place where merchandise, etc., is transferred from one story to another

JAMES BATES, Patentee.

Nos. 1, 3 & 5 President Street, BALTIMORE.

THE BRADSTREET MERCANTILE ✠ AGENCY

HAS NOW BEEN

Under its present successful management for the past seven years,

And during that time its business has more than trebled, while its facilities have proportionately increased.

No expense is considered too great in obtaining and applying to the conduct of the business all possible improvements. With its present system for obtaining and promulgating information, this Agency is justly regarded by its patrons as authority on all matters affecting commercial credit. Its ramifications are greater and its business larger than any similar organization in the world conducted in one interest and under one management.

You are respectfully invited to investigate, and, if in need of an Agency, to test its ability to serve you.

CHAS. F. CLARK, President.

Baltimore Office,—American Building,

H. KERSHAW, Supt.

New and Second-Hand Machinery

NEW.

1 Engine Lathe, 10 in. x 3½ ft.
1 each Engine Lathes, 11 in. x 4 and 5 ft.
1 " " " 13 in. x 5, 6 and 8 ft.
1 Engine Lathe, 14 in. x 5, 6 and 8 ft.
1 " " 16 in. x 6 ft.
1 each, Engine Lathes, 16 in. x 6, 7, 8 and 16 ft.
1 Engine Lathe, 18 in. x 6, 8, 10 and 12 ft.
1 " " 20 in. x 8, 10, 12, 14 and 16 ft.
1 " " 22 in. x 8, 10, 12, 14 and 16 ft.
1 " " 24 in., any length of bed to 26 ft.
1 " " 26 in., " " " 26 ft.
1 " " 28 in., " " " 46 ft.
1 " " 28 in., " " " 28 ft.
1 " " 30 in., " " " 28 ft.
1 " " 36 in., " " " 29 ft.
1 " " 42 in., " " " 28 ft.
1 " " 48 in., " " " 29 ft.
1 " " 15 in. x 4, 6 and 8 ft. Rod feed only.
1 each, Turret Lathes, 13 and 14 in. x 14 in x 6 ft.
1 Fox Turret Lathe, 16 in. x 6 ft.
1 Fox Lathe, 15 in. x 5 ft. Round arbor.
1 each, Hand Lathes, 10, 12, 15 and 18 in. swing.
1 Iron Planer, 18 in. x 18 in. x 3 ft.
1 each, Iron Planers, 20 in. x 20 in. x 4 and 5 ft.
1 Iron Planer, 24 in. x 24 in. x 6 ft.
1 each, Iron Planers, 26 in. x 26 in. x 7 and 10 ft.
1 Iron Planer, 30 in. x 30 in. x 10 ft.
1 " " 36 in. x 36 in. x 10 ft.
1 each 16, 20, 22, 23, 25, 28, 30, 34 and 38 in. Upright Drills.
1 each, Nos. 2, 3, 4 and 6 Spindle Gang Drills.
1 each 8, 10, 12, 15, 18 and 24 in. Shapers.
1 each, Nos. 1, 2, 3 and 4 Milling Machines.
1 No. 2 Milling Machine. Lincoln Pattern.
1 New Pattern Milling Machine. Grant & Bogert.
1 each, Nos. 2, 4, 5 Wire Feed Screw Machines.
1 each, Nos. 3 and 7 Spindle Nut Tapper.
1 Boring and Turning Mill, each 50 and 72 in.
1 Gray's Screw Machine, to take all sizes to 1 in.
1 32 in. Gear Cutter.
1 Grant & Bogert Cutter Grinder.
1 12 in x 20 in. Cylinder Horizontal Engine.

SECOND-HAND.

1 Engine Lathe, 15 in. x 6 ft. Chelsea Machine Co.
1 " " 24 in. x 8 ft. Fair order, with taper attachment.
1 Lathe, 84 in. x 19 ft.
1 " 14 in. x 8 ft. Plaisdell.
1 Planer, 27 in. x 27 in. x 5 ft.
1 " 37 x 37 x 9 ft.
1 " 24 x 24 x 7 ft.
1 " 44 x 44 x 8 ft.
1 " 50 in. x 50 in. x 17 ft.
1 Crank Planer.
1 Lincoln Pattern No. 2 Millers.
1 9-in Shaper.
1 Bolt Cutter, to take sizes to 1 inch.
1 Horizontal Boring Machine, 36-in. swing, will take 6 feet between centres.
1 30-in. Plain Upright Drill.
1 Bement Slotter, 12 in. stroke.
1 35-in. Gear Cutter.

All kinds Machinists' Tools and Supplies.

New York Agency of the Tanite Co.

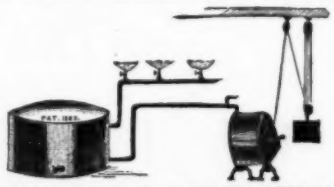
Grant & Bogert Machine Tool Works,

AND FOR THE

"New Polished" Shafting.

H. PRENTISS & CO.

42 Dey Str., New York.



THE BROUGH GAS MACHINE.

We desire to call your attention to the advantages of this Machine (patented Sept. 4, 1883,) for lighting Churches, Hotels, Dwellings, Factories, etc. There is no smoke, and it is free from condensation in pipes. It can be applied to Stoves and used for Heating Purposes. It is also sold on reasonable terms. For terms and all information address

Brough Gas Machine Works.

Office, 52 Lexington Street, BALTIMORE, MD.

THE INK

WITH WHICH THIS PAPER IS PRINTED IS MADE BY THE

QUEEN CITY PRINTING INK Co.

CINCINNATI, O.

TOOLS

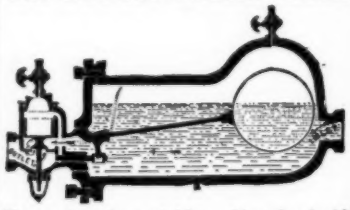
TAPS & DIES · VISES · TWIST DRILLS · CHUCKS · MACHINE SCREWS · LATHES · FILES · STEEL & TOOLS · STUBS

TOOLS for Machinists, Amateurs, Jewellers, Model Makers, Blacksmiths, Carpenters, Coachmakers, etc.

Send 20 cts. for **new** *Metal Worker's Catalogue, 300 Pages. Wood Worker's Catalogue free.*

TALLMAN & McFADDEN, Philadelphia, Pa.

The CURTIS STEAM TRAP.



Has *main* valve outside. *Air* valve inside.

MANUFACTURED BY

Curtis Regulator Co., 158 Beverly St., Boston.

——GENERAL AGENCIES:——

109 Liberty St., New York; No **19** N. 7th St., Philadelphia; **86** and **88** Market St., Chicago; No. **49** Holliday St., Baltimore.

NELSON CURTIS, Agent.

1837. NOVELTY WORKS. 1883.

JAMES MURRAY & SON,

Machinists and Millwrights

Engines and Boilers, Mills of all kinds, Marine Railways, &c. Improved Clay Tempering Machinery, Steam or Horse Power. Phosphate Machinery, Crushers, Rollers, Mixers, &c. &c.

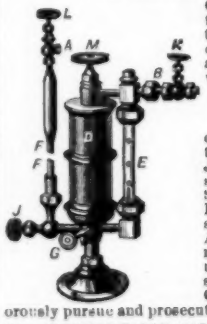
40, 42 & 44 York Street,

NEAR LIGHT, BALTIMORE.

☞ Repairing of all kinds promptly done.

The Seibert Cylinder Oil-Cup Co.

SOLE MANUFACTURERS OF



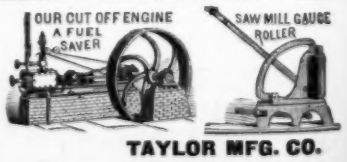
Oil Cups for Locomotives, Marine and Stationary Engine Cylinders, and the Seibert and Gates Patents with Sight Feed.

Take Notice.

The "Sight Feed" is owned exclusively by this company. See Judge Lowell's decision in the United States Circuit Court, District of Massachusetts, Feb. 23d, 1882.—All parties are hereby notified to desist the use, manufacture or sale of INFRINGING CUPS, as we shall vigorously pursue and prosecute all infringers.

The SEIBERT CYLINDER OIL-CUP CO.

53 Oliver St., Boston, Mass.



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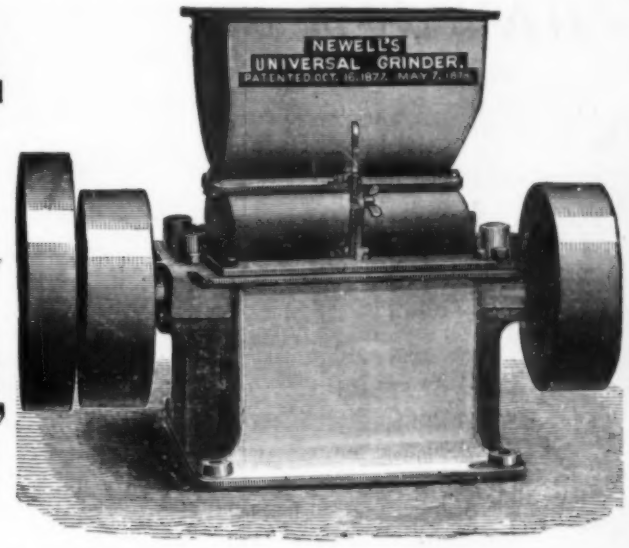

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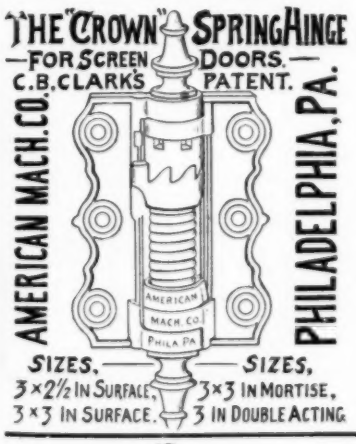

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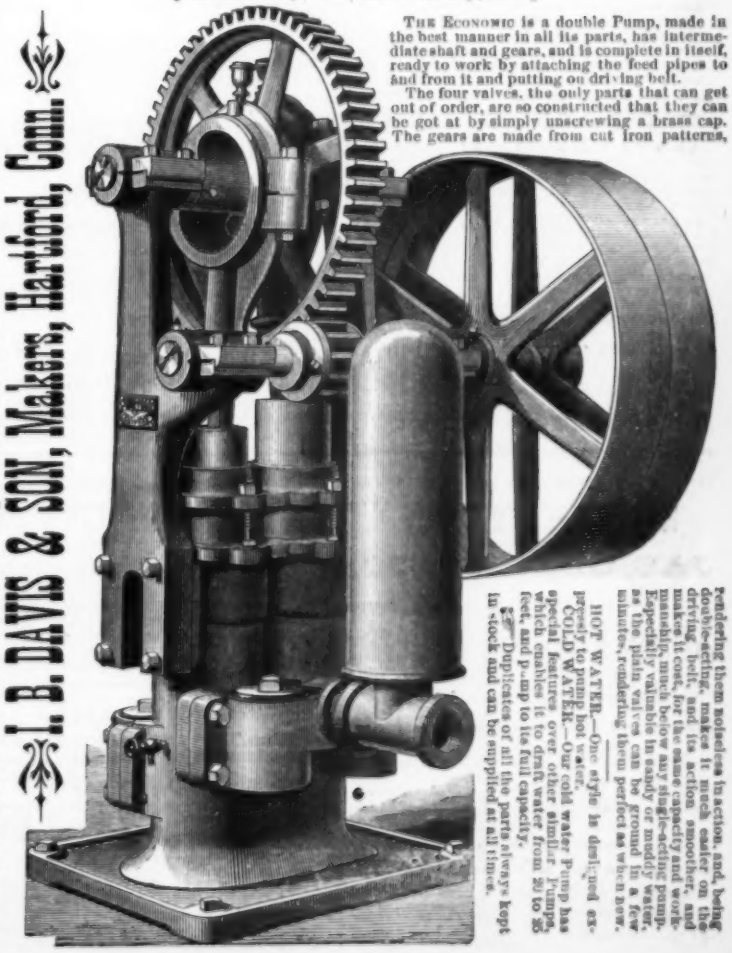

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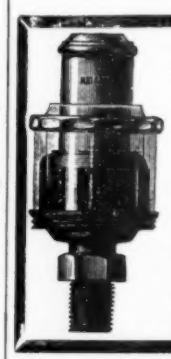

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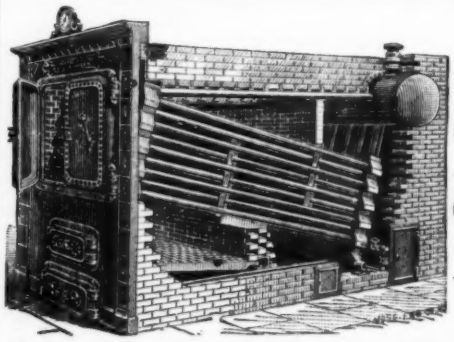

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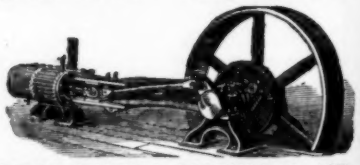

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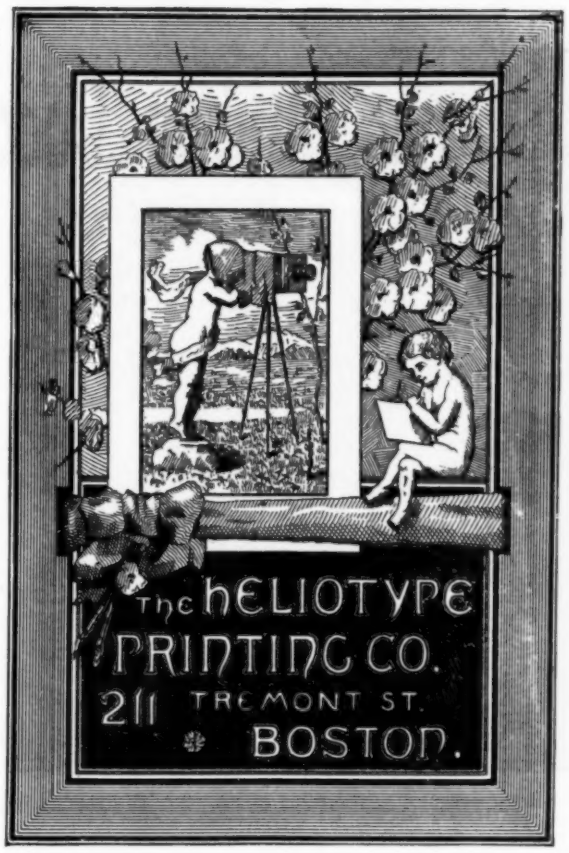

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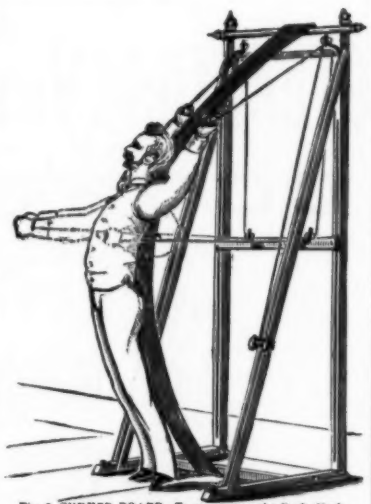

Fig. 9, CURVED BOARD—To strengthen the Back, Neck, Abdominal Muscles and Expand the Chest.

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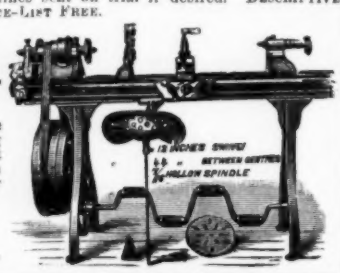

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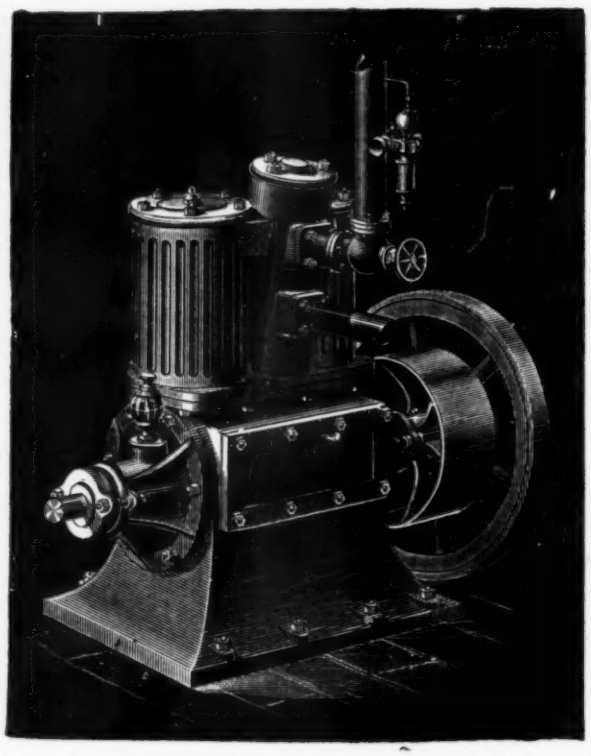

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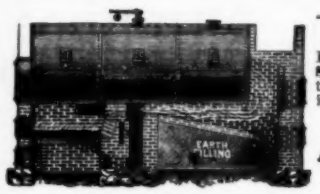

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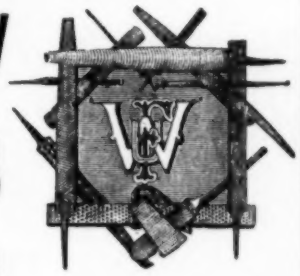

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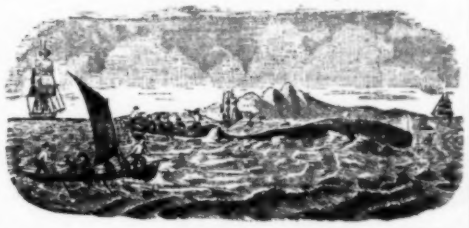

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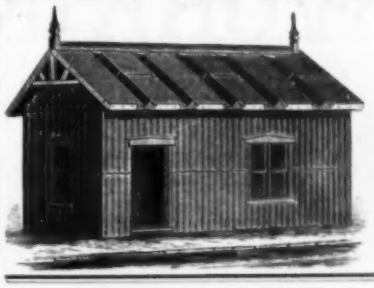

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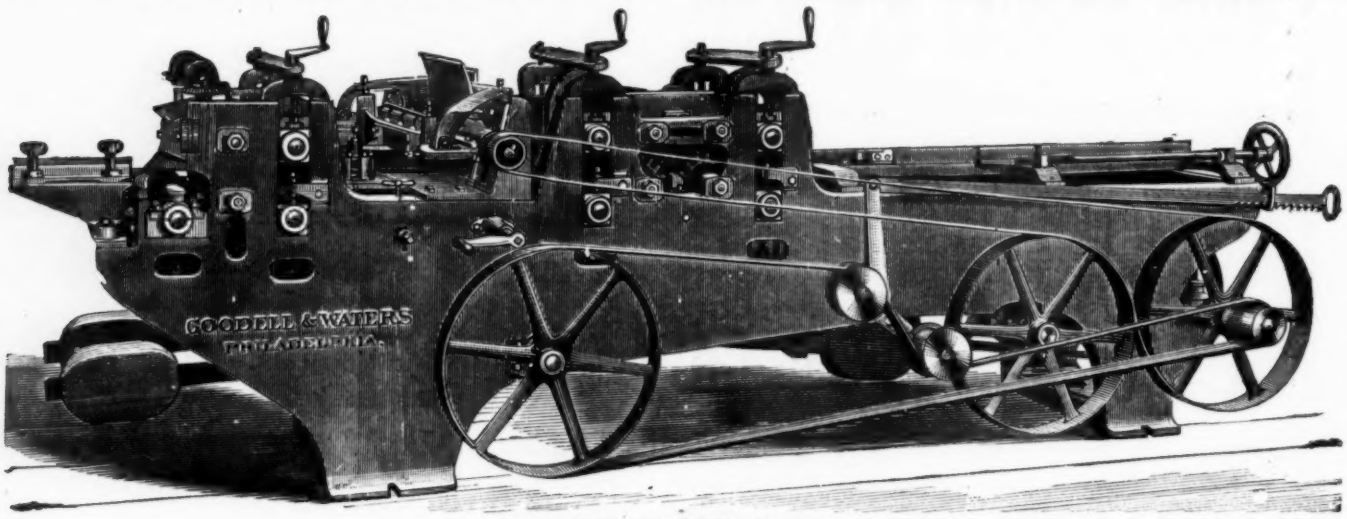

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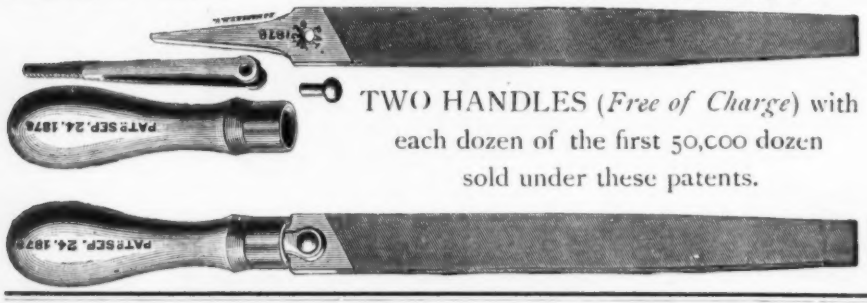

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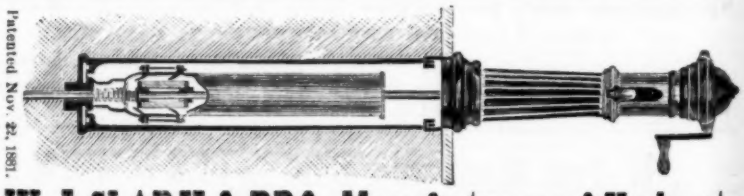

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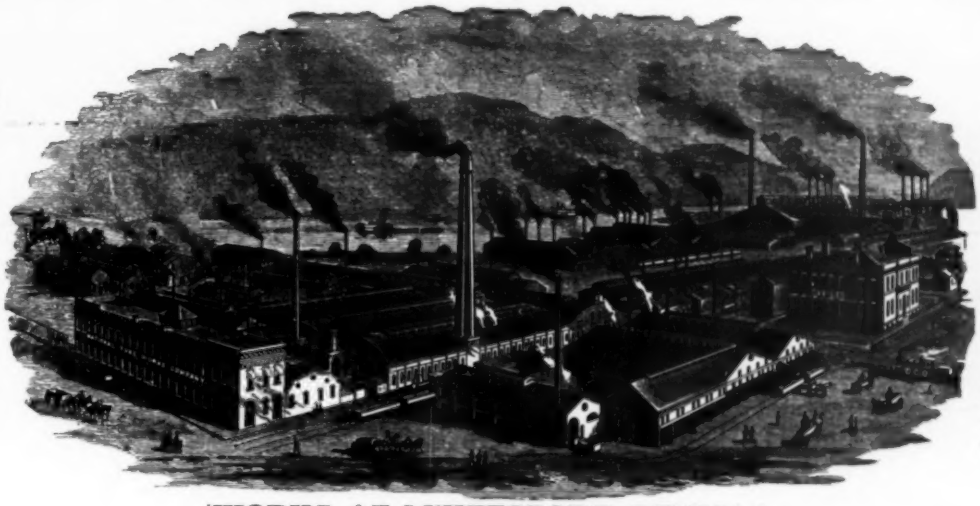

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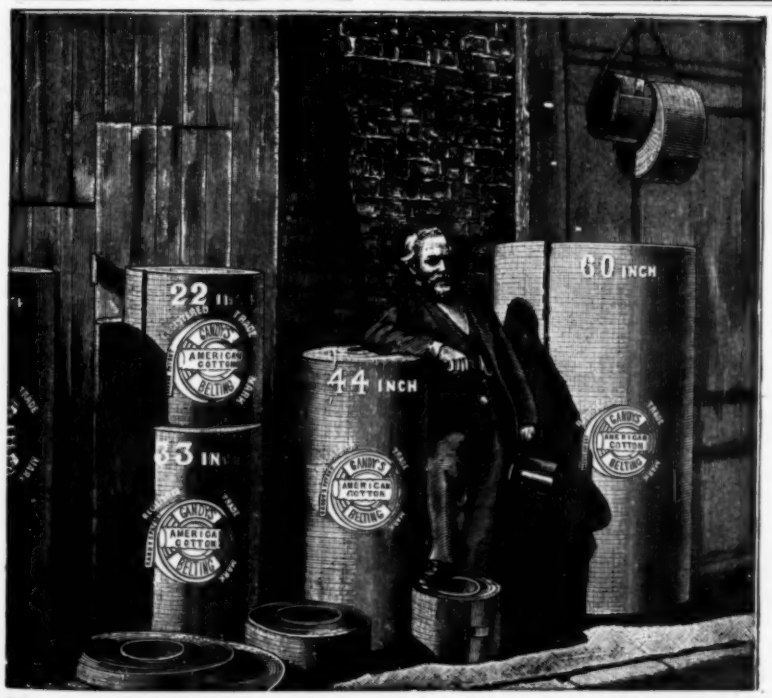

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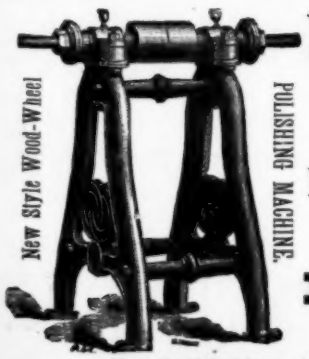

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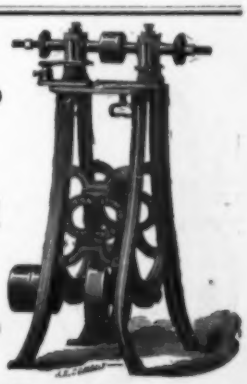

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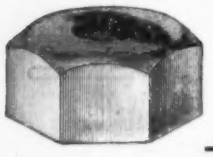

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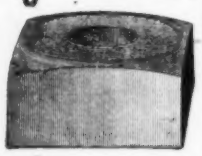

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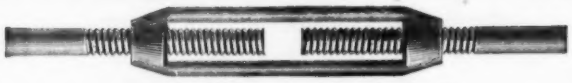

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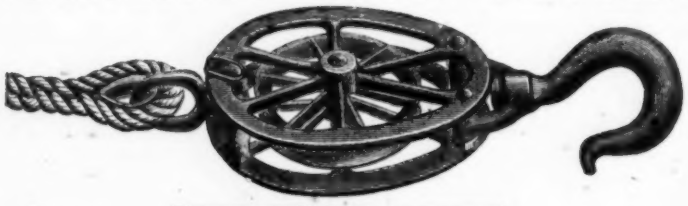

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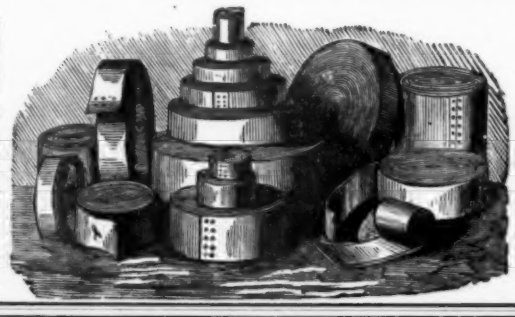

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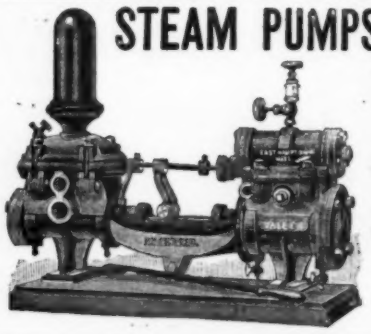

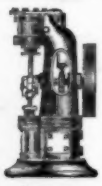

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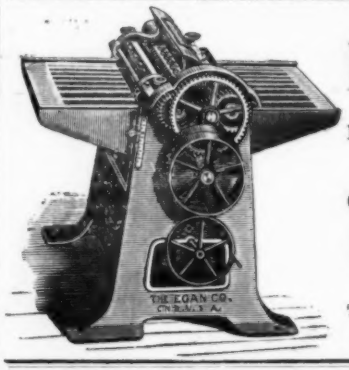

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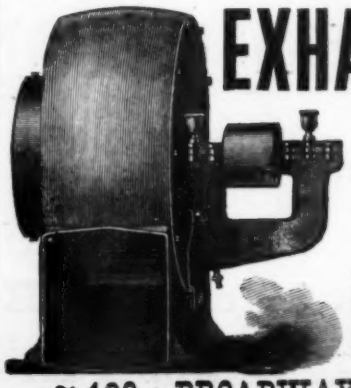

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